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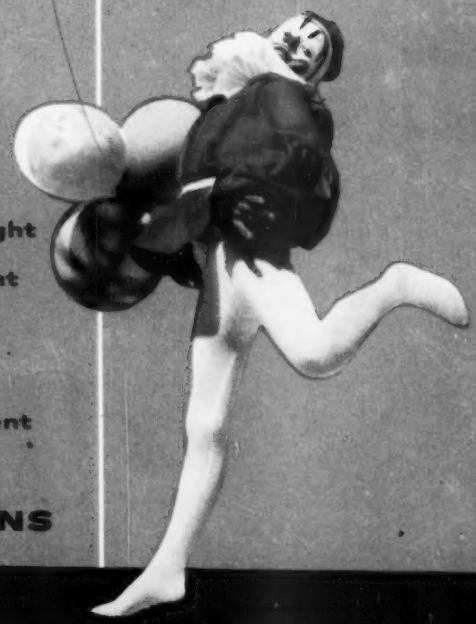

MAY, 1952
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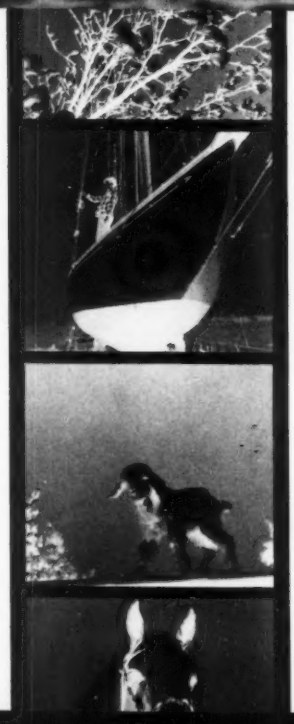
CRYSTAL JUBILEE ISSUE

Our 15th Anniversary... A review of outstanding pictures and events



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*** SALT LAKE CITY, UTAH,

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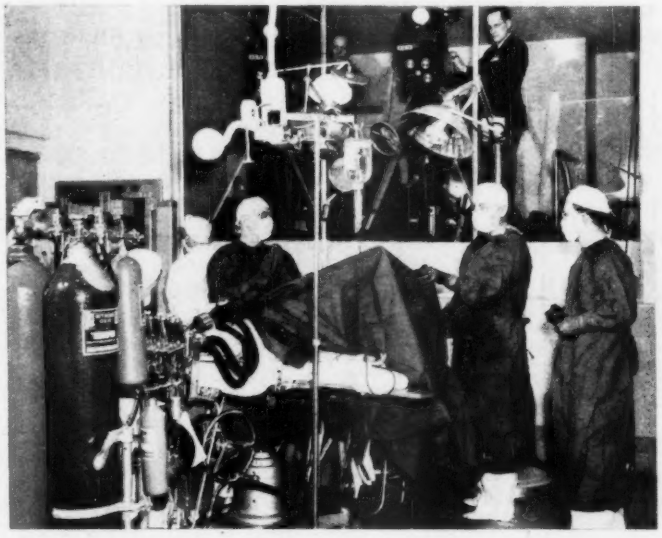

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Assembled in a special regional meeting in the Joseph Smith Memorial Building on the Brigham Young University campus in Provo, welfare work-

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AT WORK J. M. HESLOP SHOOTS THIS

AT HOME HE SHOOTS THIS

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The magazine of POPULAR PHOTOGRAPHY

MAY, 1952 VOLUME 30, NUMBER 5

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For Primarflex	14.95

Save $20.00 on brand new **PHOTO-FLOOD SYNCHRONIZER** $9.95

We owe you an explanation for the ridiculously low price: Present cost of materials would make a $50.00 list price for this unit necessary, causing manufacturer who had sold thousands of Cameratrols at $29.95, to sell us his entire stock and discontinue production. And our buyers grabbed it! But, of course, there won't be any more after this one lot is gone—so hurry. Cameratrol makes flash-like exposures with ordinary No. 2 photoflood bulbs, at a fraction of the cost of a flashbulb. Cameratrol can be used with any camera: instant synchronization is established through cable release socket. Built-in dimmer switch makes focusing comfortable, saves current and bulb-life. 18-foot remote control switch virtually eliminates need for self-timer, adds many possibilities to indoor picture-taking. Virtually any camera fits onto Cameratrol bracket. Outfit not only contains Cameratrol synchronizer, electrically operated cable release and remote control switch and Hi-lo switch, but also two eight foot lamp cords with sockets, making the value of the individual components alone worth so much more than our moderate price of $9.95.

Shipping Weight 6 lbs. *Add $.50 for Leica Model*

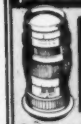
Suggestion: Two sets of 10" reflectors, clamps, No. 2 bulbs $3.00.

FREE *Spring 1952 issue of Kine Exakta News* **FREE**

Not only gives latest (and lowest) prices on Kine Exakta accessories, but furnishes such valuable information as a diagram on angles of various lenses, a table of relative magnification, exposure factors and field coverage for Extension Tubes—write for your free copy today.

For the Discriminating Owner of a Leica

Spiratone offers a selection of the finest German and Japanese accessories, at down-to-earth prices, yet worthy of the precision of this fine camera!



90mm f:4 Telephoto Lens $49.95

including deluxe leather case

135mm f:3.8 Telephoto Lens $59.95

including deluxe leather case

These Japanese lenses are precision rangefinder-coupled, have chrome-polished brass barrels with depth-of-field scales engraved and focus from 3½' and 3' to infinity. Qualitatively, these lenses are acclaimed by users to be equal to the finest, and are unhesitatingly recommended by us to the critical photographer.

Buy both lenses simultaneously and receive, free of charge, a new image-erecting Universal Finder, worth $35.00!

LEITZ IMARECT FINDER....$29.95

Slightly used. Latest model, with settings for all lenses from 35mm to 135mm, parallax correction, chrome finish, for use with Leica and Contax. Fits accessory clip.

Shipping Cost 50c

adapter-shade combinations

For 50mm Elmar f:3.5, Series V	$2.25
For 50mm Summar f:2 and 90mm Elmar f:4, Series V	$2.25
For 50mm Summitar f:2, Series VI (special shade)	$3.95
For 35mm Summaron f:3.5, Series V	$2.25

Special Buy from Germany

diffusing disk $1.49

for all 36 and 42mm diameter lenses

Adds that pictorial quality to your photographs, saves retouching on portraits. You'll discover dozens of useful applications for the ranktest amateur. Slips right over camera lense.

SELFTIMER $2.95

Fits over Leica Release Button

Chrome finish automatically retracting pin makes possible next exposure without removing selftimer.

Shipping Cost 10c

CABLE RELEASES FOR LEICA:

10" 70c 40" $1.50

60" $1.98

Add 25c for set screw models.

TELEPHOTO FINDER *incl. leather case* $6.95

Chrome Finish—fits accessory clip—parallax correction—neat leather case. Available for 75mm, 85mm, 90mm, 135mm focal length. Should sell for twice as much.

Shipping Cost 15c

WIDEANGLE FINDER FOR 35mm LENS.....$7.95

Save 50% on Genuine

GEISS KONTAKT and FOLDING POCKET FLASHGUN $14.95

Geiss Kontakt provides positive flash synchronization with virtually any model Leica; no installation is required—one part fits over shutter dial, other part on accessory clip (permits use of other accessories on top). Folding gun helps you preserve compactness of your outfit; its exceedingly effective reflector folds into battery case! Leather Case $1.00.

Shipping Cost 25c

SCREW-IN METAL LENS CAPS

For Summar, Elmar $1.25

For Summitar $1.50

DELUXE LENS CASES

Finest plushlined imports

For 35mm and 50mm lenses	$3.95
For 90mm Elmar	4.95
For 135mm Hektor	5.75

Shipping Cost 25c

Hunting for Bargains in LENSES? Here are some top values, either new or showcase models, all coated, color-corrected fully guaranteed.

for 4"x5" Graphic, etc.	135mm f:4.7 Schneider XENAR, in M-X Compur shutter, latest model	$43.95
	240mm f:5.5 Schneider TELE-XENAR, in barrel	49.95
for Leica	50mm f:1.8, rangefinder-coupled, ANGENIEUX	69.50
	75mm f:3.5, rangefinder-coupled, SUN	39.95
	135mm f:4.5, rangefinder-coupled, CULMINAR	59.95
	85mm f:2.8, rangefinder-coupled, CULMINAR	64.50
for 16mm C-Mount	17mm f:2.8 Berthiot CINOR, focusing	29.95
	3" f:2.9 NEWTAR, focusing	29.95
for Practica, Contax S	85mm f:2.8 Steinheil CULMINAR	49.95
	135mm f:4.5 Steinheil CULMINAR, deluxe case	49.95
	135mm f:4.5 Schneider XENAR	49.95

3 more pages of Spiratone directory ads follow.

For Color, For Black and White

Spiratone AUX. TELEPHOTO and Wideangle Lenses

HAVE PROVEN A MUST FOR 35mm

For these Cameras: Argus A2, A2F, C2, C3, C4, 21, Bantam, Belsey B, B2, C, Contessa 35, Ikonta 35, Kine Exacta F:2.8, F:35 Kodak 35 (RF), Mercury II, Perfex, Polaroid Land, Pony 828, 135, Praktiflex f:2.9, 3.5; Retina I, II, Signet, Vito and most other 35 MM cameras.

$29.95 $16.95 each lens

Set of Telephoto and Wideangle lenses in double leather case, for any of the cameras listed.

New, uniformly low prices save you between $5.25 and $19.70 per lens!

Brand New Features Not Available Before

Telephoto Finder Mask, supplied free of charge with every lens, for every non-reflex 35MM camera.

All lenses furnished with either built-in or separate filterholders (saving you $1.25 or more per lens!)

Interchangeability of adapters, so that one lens may often be used on several different cameras.*

Scientifically designed means of attachment of auxiliary lens to camera—every adapter expressly fitted for your camera.

*If you wish to purchase a lens or set of lenses to be used on two or more cameras, write us what your problem is, and we will try to furnish you with that model which can be adapted for use with your particular cameras. Each lens is furnished for use with one camera only—additional adapters are $1.25 each.

PROVEN FEATURES STILL AVAILABLE DESPITE NEW LOW PRICES:

- Extra-hard S-coating
- Full color correction
- Free genuine leather case
- Lifetime Service Guarantee
- No change in exposure or lens opening necessary

Wideangle Finder Attachment for non-reflex 35MM and 828 cameras. $1.95

When ordering, be sure to state what camera and lens you have.

Shipping cost, for 1 lens 25c, for set of lenses 50c

FILTERS: Your choice of medium yellow*, green*, orange*, red*, haze*, photoflood*, type A, UV-16, UV-17 and skylight for use with Spiratone lenses.

Each filter $1.00

FREE 12 PAGE BOOKLET TELLS ALL ABOUT AUXILIARY LENSES, WRITE FOR IT!

*TAX REDUCTION SPECIAL

FREE: Your selection of any two of the filters marked * with every Spiratone aux. lens ordered. With order for set, select four free filters or pay only $4.98 and receive all ten filters listed.

Comparable to 6c slidebinders!

2x2 Glass Slidebinders 2½c each

In lots of 200

The biggest bargain in quality slidebinders ever offered and one of the finest methods of mounting transparencies (35mm Argus, Leica size) between glass! Programmed Fibroboard, self-centering of slide, provision for type-on titles, dustproof, lintfree, shockproof—all these advantages are yours for less than the usual cost of glass alone! Why risk fingerprints and scratches on your irreplaceable color shots? 200 for $5.00. *Shp. Wt. 5 lbs.* Sample package of 20 2x2 glass binders, postpaid 75c.

200 Singleframe (Mercury) Masks $1.75.
200 Square (Robot, Tenax) Masks $1.75.
Masks fit glass and metal binders

Save up to 40% on

2x2 METAL SLIDE BINDERS 6c EACH

The ultimate in simplicity! Aluminum glass binders, may be used over and over again. Just place transparency between glass, insert in metal non-warp frame.
18 for $1.26 54 for $3.51 126 for $7.56
Shipping Weights 1 lb., 2 lbs., 5 lbs.

2X2 SLIDE PROJECTOR

BLOWER BASE $7.69

Shipping Weight 3 lbs.

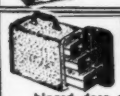
All-metal. Built-in blower provides ample air circulation for your 100, 150, 200 watt 2x2 projector, prevents damage to slides, makes prolonged projection more comfortable. AC only. Often makes possible use of greater wattage bulb, thus transforms your projector into equal of more expensive model

2 x 2 ECONOMY SLIDEFILES, 2 for $2.69

Save $1.21

Neat, compact, leatherette covered and hinged, with clamplock. Four main compartments and 12 metal dividers enable you to sequence-file as many as 360 redimounts or 150 glass or metal-binders in groups to suit your requirements. Regularly, each $1.95.

Shipping Weight (2) 3 lbs.



3-drawer deluxe tu-tone SLIDEFILE 6.95

Model S-300R is made of plywood, elegantly leatherette - covered. Its hinged door assures dustproof storage, the handle convenience in carrying. Really a 'piece of furniture', not just another slidefile. Drawers are slotted and hold up to 900 redimounts or 300 glass slides. Worth almost double!

Shipping Weight 4 lbs.

S-400R, same as S-300R, but with four drawers, thus giving 33-1/3 more storage space. $8.69

Shipping Weight 5 lbs.

$4.95 COMPL. w. bulb & cord.

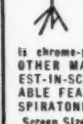
ELECTRIC SLIDE VIEWER Save $1.55

FOR 2¼x2¼ and 2x2 (35mm) SLIDES Brilliantly magnifies full transparency, allows no squint vision from comfortable distance. Accommodates all kinds of mounts in the 2¼ square and 2x2 size.

Ship.Wt. 3lbs. Free 10 full color Walt Disney slides.

Portable Crystal Beaded

30"x40" TRIPOD SCREEN $8.19



Sensational! Never before was a fine quality screen offered at so low a price. Crystal-beaded pyroxylin surface adds extra brilliance to your pictures! Screen raises and lowers on elevating rod, assures positive screen alignment. The metal can is finished in scratch-resistant hammerton blue enamel. Carrying handle sets automatically for balanced carrying. The sturdy tripod is chrome-plated and has protective rubber tips. WITH OTHER MAKE SCREEN PRICES RISING, THESE LOWEST-IN-SCREEN HISTORY PRICES AND MANY VALUABLE FEATURES ADD UP TO ANOTHER UNBEATABLE SPIRATONE VALUE.

Screen Size		Appr. Shpg. Wt.
30"x40"	8.19	10 lbs.
40"x40"	9.64	11 lbs.
37"x50"	11.89	14 lbs.
50"x50"	13.95	15 lbs.
52"x70"	20.95*	

Unique new packaging design permits use of container as handy, protective storage and carrying case.

Free with any tripod screen (please specify): 10 interesting 2x2 color slides or 8mm 100 foot carmel-Hollywood Film.

**This screen is shipped by us Express (freight costs collect) within U.S.—other screens can be shipped Parcel Post or Express.*

FRESH, SAFETY, GUARANTEED

35mm BULK FILM

KODACHROME $14.98
DAYLIGHT TYPE, 27½ FT.
50 ft. $25.98; 100 ft. $49.98
Processing (w.o. mounting) included in cost.
Ship. Cost: 10c, 35c, 50c.

PLUS X $3.49
fresh safety stock 100 ft.
Ship. Cost: 50c

ANSCOCOLOR $6.98
DAYLIGHT TUNGSTEN TYPE 27½ FT.
50 ft. $12.25; 100 ft. $22.95

Prices include 5, 8 and 10 metal cartridges, respectively. Emulsion No.'s 235 (Daylight) and 234 (Tungsten) same as in factory-packed spools. Expiration Date of Anscocolor at least one year from date of purchase.
Ship. Cost of 27½ ft. 25c, of 50 ft. 35c, of 100 ft. 50c.

35mm DAYLIGHT LOADER $4.95

including five cartridges

IF PURCHASED TOGETHER WITH MINIMUM OF $10.00 WORTH OF BULKFILM.

It's so simple to take advantage of the exceedingly low cost of 35mm bulkfilm and to load any desired length into a standard Eastman cartridge. First few reloads already make loader pay for itself.

LOADER, alone with 5 cartridges, $5.95

Shipping Weight 4 lbs.

SPECIAL: 35mm, 36 exp. Safety Plus X, packed in brand new metal Dover cartridges. While they last—7 for $2.00 ppd.

FRESH, SAFETY, GUARANTEED

35mm RELOADS IN METAL CARTRIDGES

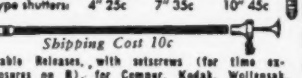
KODACHROME $2.25
DAYLIGHT TYPE, 20 EXP
Processing (w.o. mounting) included in cost.
5 for $10, postpaid

ANSCOCOLOR 20 EXP. $1.50
DAYLIGHT OR TUNGSTEN TYPES
Types 235 or 234, same as factory packed spools.
8 for $10.50 postpaid

PLUS X 20 EXP. 40¢
36 exp. each 60c, 4 for $2
Ship. Cost: For 1, 5c; 3 to 5, 20c; 6 to 8, 25c
6 for $2.

40" CABLE RELEASE $1.25

Here is your opportunity to obtain an extra long cable release for your camera—at almost one third of the usual price and for pennies more than a short release. State what camera you have when ordering. Any length, Leica model 25c extra. Other Cable Releases, for Compur and Kodak-type shutters: 4" 25c 7" 35c 10" 45c



Shipping Cost 10c

Cable Releases, with setscrews (for time exposures on B), for Compur, Kodak, Wollensak, shutters: 10" 75c, 40" $1.50, 60" $2.50.

Black and White

35MM FINE GRAIN SERVICES

Spiratone 35mm services are used all over the world. They combine extreme economy with expert workmanship and the use of the best materials. All enlarged prints are made on popular Velour Black, with each negative individually exposed on the proper contrast paper.

Prices below include return postage

"EXCELSIOR"
Ultra Fine Grain Processing and 3¼x4½ glossy enlargements. 20 exposure roll $1.00
36 exposure roll $1.58 65 exposure roll $3.10

"SUPERB"
Ultra Fine Grain Processing and 3¼x4½ doubleweight velvet enlargements. 20 exp. roll $1.18
36 exposure roll $1.83 65 exposure roll $3.65

"MASKOSPOT"
The most highly perfected 35mm service. Ultra Fine Grain Processing and enlargements on doubleweight velvet or singleweight glossy (please specify which) paper.

	3¼x4½	3½x5	4x6
36 exposure roll	2.60	3.12	3.66
20 exposure roll	$1.68	$2.08	$2.35

"STRIPPRINTS"
Ultra Fine Grain Processing and printing on a continuous roll of paper. 20 exp. roll 60c
36 exposure roll 80c 65 exposure roll $1.26

All services are available for doubleframe (Leica, Argus size) and singleframe (Mercury size) negatives. Robot, Tenax (24mmx24mm) size negatives are enlarged to 3x3.

The cost of reprinting uncut developed rolls is the same as that for undeveloped rolls.

35mm B&W TRANSPARENCIES

the most thrilling way of presenting your pictures. Printed from your 35mm films (doubleframe or singleframe Mercury size), without changing them in any way. Projection Positives are made on an extraordinarily fine grain film, with each negative INDIVIDUALLY exposed. Viewed in a small viewer or projected life-size on a screen — you'll enjoy the wide tonal range, the three-dimensional quality, the sparkling brilliance which only SPIRATONE PROJECTION POSITIVES can reveal in your pictures. Let us make transparencies from your old rolls, too, so you can relive those happy memories! Send us your next 35mm roll for Projection Positive Printing; there is no extra charge for ultra fine grain processing the negatives.

PROJECTION POSITIVES ARE SURPRISINGLY INEXPENSIVE:
FROM UNCUT 35MM ROLLS: 20 EXP. ROLL 65c; 36 EXP. ROLL $1.05; 65 EXP. ROLL $1.80. From strips having less than six exposures, but no shorter than 4½ inches in length, or selected by frame No.: each frame 10¢

ANSCOCOLOR
72-HOUR PROCESSING + $1
3¼x3¼ COLOR PRINT
ENCLOSE TRANSPARENCY FOR FREE PRINT OR ASK FOR PRINT COUPON. 20 EXPOSURE ROLLS (DOUBLEFRAME) PROCESSED AND MOUNTED $5.00

Complete price list of other 35mm services, black and white and color, on request to Dept. PP.

FOR THE 8MM MOVIE FAN

8MM PROJECTION EDITING VIEWER

$6.95 You'll more than ever enjoy editing your movies when you use this neat, all-metal, electric editing viewer. It projects a clear image on the groundglass, makes possible viewing from a comfortable distance.

Ship. Wt. 2 lbs.

Save 33⅓% For All 8mm and 16mm Cameras!

CINE TITLER

with Six 8mm Ready-Made Titles

$4.64

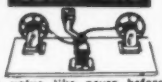
Titles add action, provide continuity for your movies! Yet, making titles is so simple with the Cine-Titler! Sturdy metal construction. Auxiliary lens for exact focus. Photograph picture postcards, titles of your own design; you can even shoot animated titles—an instruction booklet accompanies every titler. Ship. Wgt. 4 lbs.

SUPER-DELUXE 8MM EDITOR

Projection Editing Viewer with bulb (List $10.50), pair of deluxe rewinds with brakes (List $7.50), automatic dry-splicer (List $7.50), metal base (List $2.95) — complete 5-piece outfit yours for only $16.95. *Ship. Wt. 6 lbs.* **$16.95**

Save $11.55 on complete Famous Make 4-piece

8MM EDITING OUTFIT $9.95



A value like never before! Outfit contains Projection Editing Viewer, with bulb, pair of rewinds, all metal splicer, all ready for simple mounting on board or table (not supplied). Can you afford to pass up such a value?

Same outfit, but with deluxe rewinds with brakes $10.95.

Shipping Weight 6 lbs.

Metal 8mm Reels & Cans
200 ft. sets—6 for $2.98
400 ft. sets—4 for $2.98

8MM REELCHEST

$2.98 All-metal, with partitions to hold up to six 200 foot reels in cans, without rattling. Index. Carrying Handle.

FREE with above chest. 2 8mm 200 ft. metal reels and cans. *Ship. Wt. 3 lbs.*

SPIRATONE 8MM LENSES

Unquestionably the best buys for the 8mm fan—now in even more favorable combinations and at unheard-of savings! Quality? We honestly think you could spend two and three times as much, and not get better results!

1" f:3.5 fixed focus, chrome mount, gives 2X magnification **$14.95**

1½" f:3.2 focusing, chrome mount, gives 3X magnification **$19.95**

1½" f:1.9 focusing, chrome mount, gives 3X magnification **$29.95**

These prices entitle you to an auxiliary wideangle lens, to fit your normal camera lens, and doubling your coverage, at no additional cost. Aux. wideangle lists at $13.95.

State speed, model, normal lens you have, when ordering.

8MM D mount lenses have standard threads and fit all turret and non-turret Revere, Dejur, Keystone, Franklin, and Perfex cameras, also the Kodak Reliant. Adapters are available for use of these lenses on the B&H Sportster, Tri-lens, Companion, the Bolex L-8 and the Cinemaster. Adapter $1.95.

8MM D-MOUNT

6MM F:1.9 WIDEANGLE LENS $29.95

Latest addition to Spiratone line. Extreme wide angle, chrome barrel, clickstops. Costs less than other make slowest type wideangle lenses.

Turret Special: 1½" f:3.2 focusing telephoto lens and 6mm f:1.9 wideangle lens—both for **$39.95**

1½" f:1.9 focusing telephoto lens and 6mm f:1.9 wideangle lens—both for **$49.95**

DIRECTORY ISSUE SPECIAL:

FREE deluxe leather case with each 1½" telephoto lens order. Be sure to ask for it!

Save $10.00 on

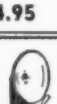
KING SOL SOLENOID $5.95

Guarantee yourself perfect flash synchronization the way professional photographers always did: with a solenoid. Almost any between-the-lens shutter can be perfectly synchronized to make flash exposures at the highest speeds foolproof. If you own a partially or non-synchronized Rollei, Speed Graphic, Retina, Ciroflex Rapax, Super Ikonta, Bantam Special or other camera with a Compur-type shutter, you won't want to miss this rare buy. With instructions for installation (state camera, shutter you have) $5.95—two for $10.50. Shipg. cost 10c ea.

SOL three-cell battery case, with 5" aplanatic reflector, for use with solenoids, incl. cord—a terrific value at **$10.95**

KING SOL Solenoid and Flash (battery case, reflector, cord), a $38.00 value . . . **$14.95**

BC POCKET GUN, $6.95



Fits accessory clip of Retina II, Contessa, Ikonta 35, other German cameras. Uses midget bulbs (5, 25, 6, SM, SF). Light (4½ oz.), compact, 4½" long battery case with built-in BC power pak assures long battery life, foolproof synch. 5" aplanatic reflector, positive ejector—all features you usually pay twice as much for. Available with Compur (Prontor S) and Kodak (A.S.A.) cord. Bracket for use on side of any camera $1.00. BC battery $1.00.

Ship Wt. 1 lb.

Save 50% on Famous Make

3-in-1 SAFELIGHT . . . $5.43

Rotate to red, yellow-green (enlarging, contact) or green (pan) without removing filters. Directional light permits 360 degree rotation. 48" sq. working space on each filter. Cool operation. Complete with bulb, cord, switch, mounting bracket—truly a professional safelight (original list price $14.95) for as little as a single-filter amateur unit.

Shipping Weight 5 lbs.

ALL-METAL 11 x 14 ENLARGING EASEL $6.95

including footswitch!

Easel has spring-steel masking bands, white enameled base, adjustable for all sizes from 1½" x 2½" to 11" x 14". Plug enlarger cord into footswitch and you are ready to dodge, vignette and fully control your 'blow-ups'.

Combined Shipping Weight 5 lbs.

8x10 Enlarging Easel, same construction, with footswitch **$5.49**

Save $5.00 on lens and case

SUNRAY ENLARGER . . . $9.95

Compact, portable. For negative sizes 35mm to 2¼x3¼. Ideal for beginners. Complete with bulb, lens, negative holder, ready for use, yet instantly disassembled and stored in the handy carrying case. Reg. $14.95.

FREE: Test strip Maker to assure perfect exposure. A $1.95 value.

Shipping Weight 10 lbs.

SPIRATONE BACKS AND RECOMMENDS THESE NATIONALLY KNOWN QUALITY

LEATHER GADGET BAGS

Made by one of the foremost manufacturers in the field, and exclusively offered by us, through a special purchase, below or close to the usual wholesale prices. These bags are all brand new, first class merchandise not to be confused with "seconds" or "closeouts" or inferior leather bags.

Shipping Weights of Gadget Bags are 2 lbs 2 lbs., 3 lbs., 3 lbs., 4 lbs.

SP1. Really the solution for the photographer with few accessories, yet just too many to carry around separately. The SP1's rectangular shape and lack of inside divisions give it ample storage space for a bag only 10"x7"x4". A reinforced bottom, a large foldover flap and two small side flaps assure maximum protection, for the contents. The SP1 also makes a sporty "over-the-shoulder-bag" for the young lady. Spiratone-priced at only **$2.95**

SP2. The SP2 is liked for its all-around versatility. Made of top-grain elk-tanned cowhide, the SP2 will be yours for years of rough handling. One large, two small inside pockets, one convenient, yet not bulky, outside opening zipper pocket, rigid shape-retaining bottom, reinforced with brass studs, 8"x10"x3"—recommended for the camera fan who likes his filters, exposure meter, extra films accessible, yet prefers extreme compactness. Available nationally at $10.00—a Spiratone buy at **$5.59**

SP3. Basically of the same overall construction as the SP2, the SP3 boasts in addition a roomy outside pocket that will hold plenty of the extras that make picture-taking real fun. Reflex Camera owners with lots of accessories will appreciate the added conveniences of the SP3. Budget-priced at half of list **$6.95**

SP4. A jumbo-sized genuine top-grain cowhide bag of beautiful appearance. Ample in size—9"x11½"x4"—for small press cameras and plenty of accessories. Zipper around top for easy accessibility of contents. Roomy inside pockets and an extra large outside pocket. **$10.95**

SP5. The latest addition to our line and one of the finest. A top-grain pigskin dream bag for the advanced amateur or professional, large enough for press cameras (10"x12"x5"), or for taking "both cameras" along. "Wrap-around" zipper, flashgun holder, shoulder pad. If you couldn't afford that $30.00 bag, you won't pass up the SP5 at a 40% saving. **$13.95**

An Almost Unbelievable Offer!

SLAVE UNIT $14.95

complete with reflector

Works as extension in conjunction with ANY flashgun, WITHOUT any wires. Made to sell for so much more only few could formerly afford it. Complete with standard tripod screw and socket. Indicator lamp, on-off switch, sensitivity control knob, midget bulb adapter—all ready for use (except for batteries) $14.95—Two for $27.95—Four for $53.95—Eight for $105.95.

Shipping Weight, each 3 lbs.

for the DARKROOM

Adjustable

DEVELOPING TANK

$1.49 *for 35mm, 828, 127, 620, 116, 616*

Simple bayonet lock for different size adjustments. Vents for quick changing of liquids. Agitating rod. Easy loading in darkroom—other operations in daylight. Easily worth double!

Shipping Weight 2 lbs.

ELECTRIC PRINT DRIER $5.95

with two 12x17" Ferrotype Plates

Yes, Spiratone does it again! A complete, ready-to-use electric drier, with a capacity of 2 8x10 or an accordingly larger number of small prints — singleweight or doubleweight, glossy or dull finish—simply constructed, yet as efficient as units costing several times as much. Works on AC or DC.

Ship. Wt. 6 lbs.

4x6" Contact Printer $4.95

Costs just a few cents more than a good printing frame! Rubber-lined platen, red viewing bulb, push-button switch, rubber feet. You save 1/3.

Shipping Weight 4 lbs.

Footswitch $2.39

No need to miss up on dodging or vignetting that print! Your enlarger or contact printer plugs into new Pioneer Footswitch. *Ship Cost 30c*

BLOTTERBOOKS, 12x18", interleaved with wax paper, capacity per book 18 11x14's or equivalent, TWO for **$2.59**

BLOTTEROLLS, pure lintless blotter and corrugated backing to provide free air circulation, capacity 60 average size prints, TWO for . . **$1.98**

Spiratone Proudly Introduces Its New

PIGSKIN FILTER BANK Series V $3.00 Series VI, $3.50

The answer to the photographer's dream! Genuine leather, can't scratch or break. Doesn't fill up gadget bag, but fits right on carrying strap. Accommodates shade and eight filters all instantly accessible. Priced to compete with filter containers made of much shorter-wear materials.

Shipping Cost 25c

FREE Introductory Offer: Your choice of one of the filters listed below (exc. polarizing) FREE with purchase of Filterbank OR Filterbank absolutely free with purchase of $10.00 worth or more of filters listed (incl. polarizing).

POLARIZING FILTER Series V $2.49

21.5mm, 25mm $2.00—Ser. VI $2.98—Ser. VII $3.98 The only sky-filter that can be used with color! Helps eliminate reflections in water, show-windows, landscapes; increases contrast between sky and clouds. Recommended for use with Kodachrome, Anscocolor and all black and white films. Fits standard filterholders.

Formerly, you had to pay $6.75 for a Series VI $5.75 for a Series V polarizing filter—Spiratone brings your cost down to less than half!

Polarizing filters are delivered in leather-like snap-button compartment cases at no additional cost.

Save up to 60% in

GIGANTIC SALE IN OPTICAL GLASS

FILTERS AND CLOSEUP LENSES

Series V, VI, VII mounted in rings. All filters ground and polished. Your choice of medium yellow, orange, green, red, haze, skylight. Type A or Photoflood conversion, UV16, UV17, BID, PLUS I (20" to 38") for portraits, baby shots, PLUS 2 (13" to 20") for head-and-shoulder shots, copying, child portraits, still lives, photographs of the television screen, PLUS 3 (10" x 13") for copying old photographs, from books and magazines, for more or less extreme closeup work.

NEW: Minus lenses, used for telephoto effects with long bellows extensions or extension tubes: -1, -2, -3.

Shipping Cost for one to six filters 10c.

Ser. V ea. $1.00 Ser. VI ea. $1.25 Ser. VII ea. $1.50

Just arrived from Germany!

PRAEZISA RANGE-FINDER $3.95

Truly, a quality instrument. Employs the superior super-imposed (Leica-type) image system for easy and accurate focusing from two feet to infinity! All-metal construction, external adjustment screw, modern styling—the Praezisa requires comparison with domestic range-finders costing three times as much to be fully appreciated! Specify feet or meters. Leather Case 75c additional. *Shipping Cost 10c*

SINGLE OPERATION FOCUSING AND READING range-finder, shows distance inside, right next to subject! Focuses down to 20". Reg. $10.50. With leather case **$6.95**

Time Exposure & Delayed Action Now Added to Every Camera

AUTOKNIPS II $2.95

This most popular of all self timers, in conjunction with a cable release, adds to your camera a feature many a photographer has paid a small fortune for: It slow speeds from ½ a second to ten seconds! Was $4.95.

Delayed Action Timer, screws directly into cable release socket, with automatically recessing pin to prevent damage to shutter, fits most cameras **$1.95**

reg. $2.95—slightly shopworn . . . .

Shipping Cost 10c

CABLE RELEASES 4" 25c. 7" 35c. 10" 45c.

Spiratone TRIPOD SPECIALS

WALNUT TRIPOD $5.79

A real government surplus bargain! Brass fittings, three sections, extremely sturdy. Disassembles into a 15½" package. Suitable for the lightest and heaviest cameras, but particularly for reflex cameras.

SAVE 60%

ON DELUXE CRAIG PAN & TILT TOP $6.98

No advanced amateur or professional will want to miss this buy! Famous Craig-Thalhammer tripod head is calibrated in degrees of rotation—has "instant-on plug" 2¾" in diameter—extra long handle for guiding camera and locking tilting action. Reg. $17.50. Ship. Weight 3 lbs.

PROFESSIONAL COMBINATION OFFER: Walnut Tripod and Craig Pan & Tilt Top, both at 1/3 less than the value of the Craig alone $11.67

Shipping Weight, Tripod 6 lbs., Combination 8 lbs.

7-section POCKET TRIPOD with Tilt-top $7.99

Folds down to 9" and right into your pocket! Miss that shot, because you left the heavy tripod home? No, you don't — not with the pocket tripod! 7 sections extend to 4 ft. sturdily support 35mm and light 2¼ x 2¼ and 2¼ x 3¼ cameras. Miniature tilt-top permits 90 degree tilt. Rubber tips, leg stops for added sturdiness. Weight: 13 oz.

Ship. Wt. 2 lbs.

TRIPOD with ELEVATING ACTION $13.95 with Panhead

The feature you always wanted but could not afford! Raise camera as high as 66" above floor level by turning handle and lock positively where desired. Single action panning and tilting lock, extra lock for movie panning! While suited for 35mm and other miniature cameras, owners of small press and of heavy movie cameras will particularly appreciate the versatility of this 4 lb. tripod!

Shipping Weight 7 lbs.

TRIPOD of the MONTH

with Spiratone Panhead $6.95

Six-section brass, beautiful chrome finish. Extends to 54", telescopes to 13½". Ideal for 35mm, 2¼x2¼ reflex, small folding cameras. Single motion panning and tilting action, locked by simple turn of handle. You'll agree this outfit should sell for double!

panhead alone $1.89

Shipping Weight 4 lbs.

WALKING STICK TRIPOD $4.42

SAVE 50%

You'll love that idea! Walking Stick instantly converts into rigid tripod—and we do mean rigid! Its non-sectional construction eliminates usual causes for weakness, makes for rock-steady operation on hilliest ground. Legs interlock. Remove rubber ferrule from bottom, unscrew wing-knob and you are all set! Available in 42" or 48" height—state preference

Ship. Wt. 3 lbs.

FREE on request with this tripod: 40" cable release.

OTHER SEC. TRIPODS

2-Sec. Brass, extends to 45" w. Spiratone Panhead 3.95

4-Sec. Steel, extends to 49" w. Miniature Tilttop 4.49

5-Sec. Brass, extends to 46" w. Deluxe Tilttop. 5.95

Ship. Wts. 2 lbs., 3 lbs., 4 lbs.

make your ARGUS, KODAK 35, BOLSEY, LEICA, SIGNET, CONTAX, PERFEX, KINE EXAKTA, PRAKTIFLEX, CLARUS, PONY into a STEREO CAMERA for only $12.75

Taking stereo-shots with one of the 35mm cameras listed is almost as simple as making two-dimensional shots. And you'll never expect that your own camera is capable of producing such life-like pictures—with a single click of the shutter and on a standard 2x2 transparency! Stereotach slips on and off the camera instantly, creates a double stereo negative or transparency on your film. There is no subject that won't gain immensely when viewed or projected in three dimensions: You'll marvel at the transparencies come to life in your viewer!

State camera you have when ordering!

FREE with Stereotach: Roll of Ansco color film, including processing and mounting for stereo viewing.

VIEWER for Stereotach-taken transparencies. $4.95

BATTERY illuminated viewer for Stereotach taken transparencies $9.90

Ship. Wt. of Stereotach and Viewer 2 lbs.

Three for the price of 1!

16MM FILMS

3 for $1.75 6 for $3.50

We have a limited quantity of brand-new 50 ft. 16mm prints which we are offering at a 2/3 saving! Sample subjects: 'Wild Elephants', 'Vesuvius via Airplane', 'Western Heroes', 'Lion and Tiger Battle', 'Flying Fists'. Sorry, we can't let you specify titles, but guarantee no duplication. Quantity available is very limited — so hurry.

Shipping Cost per 3, 15c

Famous Make Government Surplus

16MM REELS and CANS

All in good usable condition. Made by B & H, Compco, Goldberg and other popular manufacturers

Prices apply to Sets of Reels and Cans

400 ft.	4 for $2.98 9 for $5.98
800 ft.	2 for $4.49 4 for $7.98
1200 ft.	2 for $5.49 4 for $8.98

Famous German

WIDEANGLE FOR 4" x 5" $24.95

in famous make synchro shutter

Commercial photographers and advanced amateurs alike have waited for just such a buy! Made by Laitmeyr, an old-time German optical manufacturer, the 105mm f:6.8 coated wideangle anastigmat is for the 4x5 press camera owner just "what the doctor ordered". It covers approximately 85 degrees, and one half of the lens can be removed, converting it into a telephoto double the original focus length. The popular shutter has eight speeds and B; delayed action and built-in flash.

Other wideangle anastigmats, same features as above: 90mm f:6.8 for 3¼x4¼". 9x12cm cameras $23.95
120mm f:6.8 for 5x7" cameras $29.95

Laitmeyr lenses now available in superb Compur Rapid shutters, with built-in synch, cable release socket, speeds from 1 sec. to 1/400th, and B. Add $5.00 to prices quoted.

Shipping Cost 35c per lens.

Brand-new, German combination

RANGEFINDER-EXPOSURE METER $7.95 post paid

including case

The smallest combined measuring device of its kind! Only 2¼" long. Focuses accurately from 3½' to infinity on the superimposed image system, with one of the images visible in red for extra clarity! Extinction-type meter shows correct guide number in an instant. Dial on top of instrument instantly indicates right exposure! Settings of dial are in A.S.A. speeds. Rangefinder is available in feet or meter—specify preference. Carrying case fits camera case strap.

THREE UNIT

REFLECTOR OUTFIT $5.49

Two aluminum 10" reflectors for #1 or #2 bulbs, one bullet reflector for spot effects, all three complete with swivel joint, switch, socket, clamp and cord—at a fraction of their usual cost. *Shipping Weight 5½ lbs.*

FREE during clearance sale—
Two #2 one #1 photoflood bulbs.

Free on request with $5.49 or $6.49 outfit: Shutter Speed Tester

Only Spiratone offers you this $11.00

PHOTOFLOOD STAND + TWO REFLECTORS FOR ONLY $6.49

The Ideal Indoor Lighting Set-up

3-section metal stand extends to 68". Sturdy, braced legs with rubber tips. Stand telescopes compactly to only 2 feet. Positive locking at any desired height. 22" crossbar. Can also be used to hold screen, backgrounds. Two span-aluminum 10" reflectors (for #1 or 2 photofloods), complete with sockets, switches, 6' cords, ball-socket swivel joints, rubber-jawed spring clamps. Can be used on crossbar or furniture. Complete outfit $6.49

Shipping Weights: Stand 4 lbs.; Reflectors 4 lbs.

Suggestions: Two #2 photoflood bulbs	$ .66
Extra Clamp-on bullet with bulb (for semi-spot)	1.79
Photoflood Stand with Crossbar only	3.49

SPIRATONE TWOLITE $2.95

Yes, it costs half of what you'd expect to pay for a neatly-finished all-metal light-bar with easy-to-grip handle, camera-platform, U-L approved sockets, switch and cord. Use hand-held or on tripod, with movie and still cameras. Use regular reflector floods—$2.60 the set.

Shipping Weight of Twolite 5 lbs.

EXTENSION FLASH $4.95

Models to Work with Almost Any Other Flash Unit

Whether you have a Holland, Graflex, King Sol, Newschief, Bolsey, Mercury, Argus C3, Service, C.O.C. Kalart or other make gun—we have an extension flash to fit it! Yes, your gun need not have extension outlets! 15 foot cord, bulb holder (for screw-base), 5" reflector and means of attachment to your own gun — all for $4.95. Midgetbulb adapter 30c:

FREE FLASHTESTER!

Shipping Weight 2 lbs.

Save $9.00 on Patrol Photo Elec. Exposure Meter, $7.95

List $16.95. Wear it on your wrist, leaves both hands free. For color, B&W, indoors, outdoors, direct reading ASA scale. *Ship. Cost 25c.*

Save 50% on Folding

2x2 POCKET VIEWER $1.00

Only 2½"x 2¾"x ¾" when folded. Accommodates any kind of 2x2" slide. Cardboard, plastic or glassmount. Curved diffusion screen assures even overall illumination. If you never wanted to carry the conventional, bulky viewer around, you will doubly appreciate the pocket viewer: if you just needed a viewer, you certainly couldn't do better.

Shipping Cost 12c

Save up to 50% on

SMOOTHCUT COVER GLASSES

	100	300
2"x2"	1.10	2.49
2-7/16"x 2-7/16"	1.98	4.39
2-11/16"x 2-11/16"	1.98	4.59
4"x1-5/8" (Stereo)	1.98	4.49

Save 50% and more on

LUMINEX REFLECTOR FRAMES

for 35mm color transparencies

4 for $1.00 9 for $2.00

cut shows frame from rear diagramatically

Luminex frames are the ideal way to show off your beautiful transparencies—you place transparency in slot, adjust silver-coated reflector, open easel wings and position under table lamp or near other source of illumination. Luminex plastic frames display your transparency permanently, will be proud additions to your furnishing. Frames are delivered in assorted colors, and for vertical and horizontal slides.

FREE with purchase of 9 or more Luminex frames: 10 full color Walt Disney slides. *Shipping Cost 15c*

IF you own one of these cameras, you will want to get one of the NEW CAMERA GUIDES:

Bolsey B, B2, C; Kine Exakta I, II, V, VX, Exa; Stereo-Realist; Retina I, II, IIb; Pony 135, 828; Signet; Kodak 35 (rf).

A series of well-written guidebooks, sufficiently non-technical to help the beginner, yet containing a wealth of information and tables which make them indispensible for the advanced photographer and professional.

BOLSEY GUIDE. No phase of Bolsey photography is left untouched by this handbook on picture-taking with the Bolsey B, B2 and C camera: processing, indoor lighting, closeup techniques—these and many more subjects are thoroughly discussed. By Abel and Tydings. $1.75

MODERN EXAKTA GUIDE. Completely up-to-date on photography with the Kine Exakta I, II, V and VX, as well as with the Exa, this independently written guide is refreshing in its objective appraisal of the various accessories made for the Exakta cameras and covers virtually every type of picture-taking possible with this versatile camera. By Abel and Tydings. $1.95

STEREO-REALIST GUIDE. The puzzling subject of stereo-photography is analyzed in such a manner that the novice will follow every step necessary for successful three-dimensional slides with ease and cannot help but obtain perfect results. By Tydings. $1.95

KODAK 35MM GUIDE. Created for owners of Kodak 35, Signet, Retina and Pony cameras, this book takes you step by step through the operations of all 35mm Kodak cameras, then discusses every important phase of miniature camera picture-taking and processing. By Tydings. $1.95

Spiratone OPTICAL BARGAINS!

80 POWER MICROSCOPE $3.95 postpaid

The unbelievable value represented by this superb imported microscope will stun you even more than it did the experts who couldn't believe that so much precision could go for so little money into so efficient, yet compact a microscope! Delicate left and right hand focusing adjustment, sturdy cast base and body with tilt adjustment, adjustable plane substage mirror, specimen-slide holding springs—these features, plus one prepared slide and a wooden storage and carrying box with sliding door are all yours for $3.95 postpaid!

Offered for the first time U.S.

150X model, same specifications as above $6.95
300X model, same specifications as above $1.95 80X—$3.95

20X-40X-60X POCKET MICROSCOPE $2.95 postpaid

Precision-ground optics make this adjustable microscope indispensable for field use. Helps you examine minerals, gems, insects, etchings—in fact, you'll be able to find a million uses for this versatile instrument. Select power you want, then turn knurled knob until you obtain pinpoint focus. Sells elsewhere for up to 70% more!

Imported 20 POWER TELESCOPE $7.95 postpaid

Compares with telescopes three times our price! Fine optically ground 20X achromatic, coated lenses yield 400X the area magnification! Precision calibrated, metal construction, extends to 15¼", telescopes to pocket-size 6½". Indispensable for boat owners, well suited for astronomical studies, ideal for target-practicing, hunting, adaptable for observing races, sports events.

6X IMPORTED PENSCOPE

CLOSED

Coated, fits pocket like fountainpen, is always handy. Eyepiece, objective and erecting system in satin-finished neat extension chrome barrel bring objects six times closer, magnifying area 36 times! $3.95 postpaid

Best values ever!

COATED PRISM BINOCULARS

6x30 $22.95 plus 20% tax 8x30 $23.95 plus 20% tax

If you'd add the usual importer's, wholesaler's and dealer's profits together, you'd realize why we can offer you the same fine quality imported binoculars, with superb coated, achromatic optics, at such low prices—you save the two middlemen's 'big chunk' which normally goes into a 'list price'. *Shipping Cost 50c*

Hard, deluxe leather case for these binoculars $3.95

A sensational import!

100X-200X-300X MICROSCOPE $14.95

Not a toy, but a microscope suitable for students, schools, hobbyists. All metal construction, left and right hand focusing, body tilt adjustment, adjustable plane substage mirror, three objectives on turret instantly making possible desired magnification. Comes complete with one specimen and wooden box—your friends will guess you invested five times the moderate amount of $14.95!

Shipping Cost $1.00

2x2 ALL METAL SLIDEFILE, $2.19

2 for $4.15 4 for $8.00

Accommodates 300 redimounts or 150 glass-slides. Slots prevent rattling. Index. Clamp lock and handle. *Shipping Weight 3½ lbs. each.*

All prices include excise tax. Postage and insurance MUST be prepaid, even when no shipping weight is stated—overpayment will be credited in full. Everything listed is brand-new (unless otherwise stated) and fully guaranteed against defects. 25% deposit on C.O.D.'s. Items marked FREE must be requested at time of purchase!

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SUPREME VALUES!

VERICHROME FILM*

4"x61" ORIGINAL TROPICAL PACKING—12 rolls per box. Each roll when cut = 12 sheets 4"x5". Box of 12 rolls.....$3.95

35MM SUPER SPECIALS*

ALL IN ORIGINAL PACKING

Plus X	35mm x 36 exp. 10 rolls..	$3.55
Panatomic X	35mm x 36 exp. 10 rolls..	3.55
Microfile	35mm x 36 exp. 5 rolls..	1.55
Ansco Supreme	35mm x 36 exp. 10 rolls.. (1950)	3.95
Ansco Supreme	35mm x 100' Ea.....	1.20
Plus X	35mm x 100' Ea.....	1.25
Super XX	35mm x 100' Ea.....	1.30
Super XX	35mm x 200' Ea.....	2.25
Plus X	35mm x 200' Ea. (1949)..	2.50
Plus X, Supreme, Ultra Speed, Super XX	35mm x 400'.....	4.25
Sup. #2, Super XX	35mm x 1,000'.....	9.95

ANSCO COLOR DAYLIGHT #735

Guaranteed, 35mm x 20 exp. freshly loaded in metal cartridges.

3 rolls $2.75

6 rolls $4.95

ROLL FILM

Guaranteed to give satisfaction!

#127, 120, 620, 116, & 616—10 rolls... 1.49

CUT FILM*

Commercial Ortho 4"x5"—2 dozen..... 1.40

EVERYTHING GUARANTEED

KODACHROME*

Daylight or Type B—8"x10". Late 1949 date—12 sheets per box.....$11.50

ENLARGING PAPER*

Bromide SW, SM #3 Wtprf. gross	$2.50
Airgraph Ortho 4¼"x825'—5 rolls.....	1.75
Bromide SW SM #3 20"x24"—½ gross..	7.95

SPECIAL ENLARGING ROLLS*

9⅜"x200'—Contrast #1, 2, 3 Wtprf.....	2.69
7"x125'—Contrast #1, 2, 3, 4 Wtprf.....	1.69

IN VACUUM SEALED METAL CONTAINERS

CONTACT PAPER* WTPRF.

SW SM #2 & #3—10"x10"—gross...	$1.75
SW SM #1—20"x24"—½ gross.....	3.25
SW SM #2 & #3—20"x24"—½ gross	6.50

AERIAL FILM*

Super XX 5½"x56'.....	$2.95
Tri X 5½"x100'.....	5.75
Tri X 9½" x 75'.....	7.75
Panatomic 7"x130'.....	8.95
Super XX 7"x125'.....	9.25
Tri X 9½"x200'.....	20.50

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*U.S. Surplus.

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letters to the editor

Point of View

Received my March issue of PHOTOGRAPHY and I wish to state that your magazine is getting better with each issue. Leonard McCombe did a beautiful job in photographing "You Are My Love," but didn't he become a bit confused? The text states, "What you see is what the man sees as he falls in love." This is followed through until the top picture on page 44, where we see the back of the heroine's head, and look into the face of the "other woman." If his love found him with someone else, wouldn't the other woman be beside him with the back of her head showing, while the face would be that of the heroine? Anyway, that's the way it would appear to me.

Walter Duggan
Long Beach, Calif.

• It's all in the way you look at it. If the man were introducing the two girls, for example, they might very well be in the positions where McCombe placed them. We're sorry it confused anyone.—ED.

Netherlands Reporting

As a regular reader of your magazine I wish to express my admiration for what you're doing in the field of amateur photography. Over here it costs almost a third of a day's pay to buy a copy, but it's worth every penny. Especial thanks for the article about Ed Feingersh, "Photographer in White." I've never seen such shots before. I just can't express myself well enough to tell you exactly what they have done to me. Don't forget that our way of living is very different from yours; publishing such material in our magazines would be nearly impossible. It's a pity that imported periodicals have to be a luxury to us, but I'll go on reading PHOTOGRAPHY as long as I can afford it. May that be a long time.

J. D. de Groote
Rotterdam, Holland

Black Light in Medicine

It was with great interest that I read the article "Action in Color with Black Light" in your February 1952 issue. Several years ago we were faced with the problem of recording on color film various fluorescent objects. Long exposures to ultra violet light had resulted in unsatisfactory pictures because the objects were not inanimate. I am enclosing two reprints of articles which I thought might be of some interest to you, as the method that was finally devised is very similar to the one described in your magazine.

Irving L. Milberg, M. D.
New York City

• Dr. Milberg's enclosures, from the *Journal of Investigative Dermatology*, are titled "A New Technic in Photography with the Use of Ultra Violet Rays," and "The Effects of Mepacrine Hydrochloride (Atabrine) Upon the Human Skin." He made the pictures accompanying both, and provided the notes for the first, which describes a method of photographing fluorescent hairs in a case of ringworm. The latter tells of the use of the same technique in detecting the presence of atabrine in skin tissues. We're glad to see this link forged between what had appeared to be purely experimental photography and a practical scientific application.—ED.

Strong Stop Bath

Quote from your February "Print Quality" article: ". . . the prints were being sloshed around in a standard 28% acetic acid stop bath on their way to the hypo. It was quite a performance." I'll say it was quite a performance! I'd like to see what's left of the poor man's fingers after a few sessions with this "standard" stop bath.

Don Kittrell
Denver, Colo.

• What Author Bob Schwalberg meant, of course, was a standard 3% solution, made from the 28% acetic acid.—ED.

Peskin's Passage to India

The article "Color Miracle in India (January issue) makes good reading for the American public who like to see unusual stories about the Orient, but it is far from the truth. Calcutta is the largest city in India, with a population of more than five million people. It can boast of almost all the amenities of a big city anywhere. Mr. Peskin seems to have stayed at cheap hotels, where ice was only made in "basement refrigerators." Perhaps he did not know the addresses of those hotels in Calcutta which rank among the finest in the East. Incidentally, India has the second largest movie making industry in the world. Mr. Peskin could easily have hired the well-equipped darkrooms of any of the big studios—but perhaps the article would not make such interesting reading without the "difficulties" he is supposed to have encountered. I have had the opportunity of visiting your great country, and I have a very high regard for your people and their achievements. But for you to belittle another country just for effect is not in good taste.

Saifi T. Haidery
Bombay, India

• Neither Dave Peskin nor the Editors wanted to exaggerate the difficulties of color film processing in the Orient. But the fact is that no darkroom in India—not even those of the movie studios—is equipped for the complex and delicate operations of color processing. (Peskin says that India's color movie processing is still done in England.) As for the hotel, he assures us that he stayed in the best one in Calcutta, and that the service and facilities were excellent, including a large ice-making machine, which happened to be in the basement. Of course, no hotel room-service can be expected to provide such large quantities of ice as Peskin found necessary. The tap water in his room was too warm to be used without further cooling.—ED.

I caught the picture ... while Ed caught the fish

and the boys in camp enjoyed both — right away!

It's a thrill to show the picture just 60 seconds after you've snapped the shutter of your Polaroid *Land* Camera.

There's a lot more fun in cruising, camping, traveling anywhere with the camera that delivers finished prints. No waiting and wondering "how they'll come out," no disappointments, no guesswork.

Better pictures come easy with a Polaroid Camera because you see results right away. If you're not satisfied you can change the pose, the lights, the camera angle and shoot again.

Simple to operate, too. Easy drop-in film loading. Easy to focus. Easy to set the single control for shutter speed and lens opening. Easy to remove the brilliant 3¼" x 4¼" finished print.

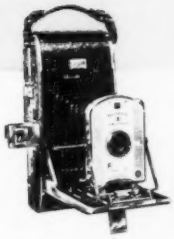
Try it! Your dealer will gladly arrange a demonstration of the world's most exciting camera.

YOU'LL WONDER WHY YOU EVER WAITED

POLAROID® *Land* CAMERA

Polaroid ® by Polaroid Corp.

The Camera of a Thousand Business Uses



Every day brings reports of business jobs done faster and better with 60 second photography. Examples:

MAKES PASS PHOTOS FASTER

Polaroid Identification Camera delivers finished prints. Employees get their passes then and there! No need for temporary passes, no waiting for photos, no red tape. Anyone can operate. Folds compactly in carrying case.

SELLING IS EASIER

Real estate men use Polaroid photos for same-day posting of new listings. Sales people in many lines now produce their own photographs for illustrating proposals, specifications, new products, reports to the home office.

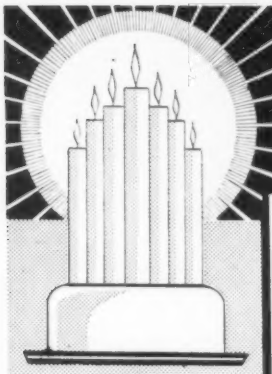
HOME MAINTENANCE . . .

firms, landscape architects, tree surgeons, use Polaroid photos for estimating, for "before-and-after" pictures as sales aids. Pictures in office record files also make useful reference for follow-up service and maintenance calls.

ARCHITECTS . . .

use picture-in-a-minute photos to check construction details, record contractors' performance, and make progress reports to clients. Carrying a Polaroid Camera on job inspections saves writing many detailed memoranda.

For complete information about the many business applications of Polaroid picture-in-a-minute photography, write to Polaroid Corp., Dept. P-42, Cambridge 39, Massachusetts.



20th ANNIVERSARY

A Twentieth Anniversary is a very special occasion . . . in any man's lifetime . . . and certainly in the lives of the people who make up PENN. It is a time for well-wishing, celebrating, and sober thought. Let us, then extend our very best wishes and sincere thanks to all of you over the length and breadth of this land, and beyond, who have wished us well through the years by permitting us the privilege to serve you.

Let us also, invite you to join us in celebration—participating in the biggest sale we've ever had . . . to launch a year which will be devoted to the greatest values ever offered.

And, in sober reflection, let us rededicate ourselves to the standards of fair dealing, honest representation, and sincere interest which have helped us gain our most coveted possession . . . our good name . . . and the reputation that we are Famous For Fairness.

BRAND NEW - COMPLETE GRAPHIC OUTFIT!

COMPLETE SALE PRICE **$189.95**

PACEMAKER
4 x 5 CROWN GRAPHIC

- SCHNEIDER XENAR 135mm Coated f4.7 Lens
- FULL SYNCHRO (MX) Compur Rapid Shutter
- GRAFLOK Back with EKTALITE
- Kalart Coupled RANGEFINDER
- King Life Graphic FLASH UNIT
- Graphic CUT-FILM HOLDER

Camera alone (less lens and rangefinder) regularly priced at $126.40

PACEMAKER 4 x 5 SPEED GRAPHIC OUTFIT
Equipped as Above Complete SALE Price $214.95

Camera alone (less lens and rangefinder) regularly priced at $170.45

BRAND NEW - COMPLETE 35mm BOLSEY B2 FLASH CAMERA OUTFIT

COMPLETE SALE PRICE **$79.50**

Consisting of:

- BOLSEY B2 35mm Camera
- Bolsey Flash Unit
- Bolsey Eveready Case
- Bolsey Lens Hood & Filter Holder
- 2 Standard Filters (your choice of colors)
- Leather Carry-All Gadget Bag

Total Value..... $112.50
Camera alone sells for $73.50

BRAND NEW! Famous German 2¼ x 2¼ Twin-Lens REFLEX CAMERA COMBINATION

WITH FLASH UNIT AND EVEREADY CASE

COMPLETE SALE PRICE **$39.95**

Ctd. f3.5 Lens
SYNCHRO-Flash Shutter

FREE: 1 pkge. of 10 Sylvania Press—25 Flash Bulbs.

BRAND NEW . . LATEST MODEL B & J 2¼ x 3¼ SPEED PRESS CAMERA OUTFIT

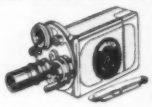
COMPLETE SALE PRICE **$114.50**
VALUE **$155.00**

- Graflex TRIOPTAR 103mm Coated f4.5 Lens
- SYNCHRO-FLASH Shutter
- Kalart Coupled RANGEFINDER
- Nationally Famous Press FLASHGUN

Kalart Focuspot—optional additional. **$7.95**

BRAND NEW! BELL & HOWELL

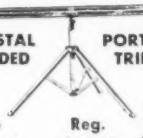
16mm Magazine Cameras



AUTOLOAD with Coated f1.9 Super Comat Lens — SALE Price **$129.50** — Reg. $214.95

AUTOMASTER 3-Lens Turret with Coated f1.9 Super Comat Lens — SALE Price **$169.50** — Reg. $274.95

BRAND NEW! DALITE SCREENS



CRYSTAL BEADED — PORTABLE TRIPOD

Size	Reg.	SALE Price
30 x 40....	$13.75	$8.95
40 x 40....	15.95	9.95
37 x 50....	19.25	12.95
50 x 50....	21.50	14.95

Brand New Condition! LATEST MODEL CONTAX-S

Zeiss "T" Coated BIOTAR f2 Lens With PRE-SET Diaphragm

SALE PRICE **$239.50**
If New $460.00

- Eyelevel PRISMATIC Reflex Finder
- SYNCHRO-FLASH Shutter

Leather Eveready Case $12.50
Contax-S Flash Unit.. $22.45

Drastically Reduced! The New SIXTUS II Exposure Meter

Reg. $22.50
Special **$12.95** with Leather Case

The newest German-made meter. Light — compact — easy one hand operation. Permits readings, for any aperature, at a glance. Features the 'Extra-Sensitivity Button', which enables quick, direct readings under the most adverse light conditions. Supplied with handy Leather Case and complete Instructions.

BRAND NEW! Radiant MASTER TRIPOD

SALE PRICE **$13.95**
Orig. $22.20

A sturdy stand with 3-section aluminum tubular legs . . . freezeproof, quick-adjusting, quarter-turn leg locks . . . single-action pan-tilt head . . . non-skid pads. Extends to 61", closes down to 25½", and weighs only 3¾ lbs.

BRAND NEW! Empire HI-RISER TRIPOD

WITH GEARED CENTER POST and MULTI-CONTROL PAN-TILT HEAD

SALE PRICE **$22.50**
Reg. $32.50

Sturdy 3-section aluminum tubular legs . . . rubber tips . . . smooth, finger-tip control of geared Hi-Riser center post. Extends to 72", closes down to 27½", and weighs only 5½ lbs.

BRAND NEW! LATEST MODEL! WEBSTER EKOTAPE TAPE RECORDER Model 109

Reg. $169.50

SALE PRICE **$109.50**

A high-quality portable unit of outstanding features and performance, and excellent tone. Has simplified controls and dual-track recording. Provides 2 hours of recording and playback at 3¾ inches per sec. Uses standard 3, 5, and 7 inch reels. Furnished complete with microphone and instructions.

PLASTIC RECORDING TAPE

40% OFF

FOR ALL STANDARD MODEL TAPE RECORDERS

7" reel (1250 ft.)	$5.50	$3.30
5" reel (600 ft.)..	3.50	2.10
3" reel (150 ft.)..	1.00	.60

PENN CAMERA
LOngacre 4-2230
126 West 32nd Street
New York 1, N. Y.

"FAMOUS FOR FAIRNESS"

SALE at PENN!

Brand New! EXPOSURE METER BARGAINS

From 'Open Stock' and at Rock Bottom Prices. These meters have been on display only, and are not packed in original cartons. All are absolutely Perfect, and Fully GUARANTEED for One Year.

Weston Master II	$21.95
General Electric DW-68	17.79
DeJur Professional	19.20
Chronos	16.95
Weston Cadet	14.49
General Electric PR-1	21.95
General Electric Mascot	11.95
Norwood Director	26.95
Leather Cases for above (except Norwood) ..... each	$1.75
Leather Case for Norwood Director	2.25

BRAND NEW CONDITION! STEREO REALIST OUTFIT

Consisting of:

- STEREO REALIST Camera
- Stereo Viewer
- Flash Unit
- 2 Lens Hoods
- 2 Filter Holders
- 2 Kodachrome Conversion Filters
- Leather Gadget Bag

Complete SALE PRICE **$155.00** used

NEW LOW PRICES! All-Metal ALKON FILM HOLDERS

For Press Cameras

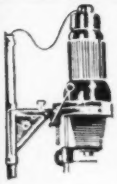
Light, strong, magnesium alloy. Indestructible and warp proof. Thinner than any other. Fit all Graphics and other cameras with spring backs.

Size	Reg.	SALE Price
2¼ x 3¼	$3.85	$2.89
3¼ x 4¼	4.00	2.99
4 x 5	4.15	3.11
5 x 7	4.80	3.59

Brand New FEDERAL ENLARGERS Drastically Reduced!

	Reg.	SALE Price
For 35mm Negatives		
Mod. 135 Dbl. Condensers & Lens	$49.95	$37.45
Carrying Case for Model 135	7.25	5.85
For Negatives up to 2¼x3¼		
Mod. 269 Diffusion Sys. & Lens	39.75	29.75
Mod. 279 Sgl. Condenser & Lens	46.95	35.50
Carrying Case for Mod. 269 or 279	7.25	5.85
Mod. 269-CL Cold Light Illumination and Lens	53.00	39.75
Carrying Case for Mod. 269-CL	10.25	8.25
Mod. 311 Sgl. Condenser & Lens	69.25	52.50
Carrying Case for Model 311	10.25	8.25
Mod. 315-CL Cold Light Illumination and Lens	80.00	59.95
For Negatives up to 4 x 5		
Mod. 450 Diffusion and f6.3 Lens	88.95	66.75
Diffusion and f4.5 Lens	109.50	82.40
Mod. 470 Dbl. Conds. & f6.3 Lens	109.50	81.95
Double Condensers and f4.5 Lens	129.50	97.50
Mod. 450-CL Cold Light Illumination and f6.3 Lens	98.75	74.50
Cold Light Illumination & f4.5 Lens	114.75	86.50
Cold Light Conversion Units		
For Models 269 and 279	23.00	18.39
For Models 311, 312, 314, & 315	23.00	18.39
For Models 450 and 470	29.50	23.60

NEW LOW PRICES! Brand New - Latest Model FOTOLARGERS



For negatives up to 2¼ x 3¼, with 2-piece upright for compact storage and portability.

Model D—Diffusion

Less Lens	$16.33
With 3½" Achromatic f6.9	19.30
With 3½" Ctd. Elgeet f4.5	27.17

Model C—Double Condensers

Less Lens	$20.99
With 3½" Achromatic f6.9	23.96
With 3½" Ctd. Elgeet f4.5	31.83

Supplied with negative carrier — specify size. Extra Negative Carriers . . each $2.75

NOTE: Condenser Models are furnished with Interchangeable Diffusion System.

4 x 5 Fotolargers . . . . . Specially Priced

Brand New . . Nationally Famous FLASH UNITS

For All Synchronized Cameras and Shutters.

PISTOL GRIP Model

- Sturdy, compact, and lightweight.
- Heavy-gauge Midget bulb reflector.
- Bulb ejector.

With Standard Bracket, Cord, and Carrying Pouch. SALE PRICE **$10.88** Reg. $14.95

STANDARD and DeLUXE Models

- Sturdily and attractively built.
- Extension household-type outlets
- Heavy-gauge, hi-efficiency spun-aluminum reflectors.
- Bulb ejector.

STANDARD MODEL	DE LUXE MODEL
SALE PRICE **$7.69** Reg. $12.95	SALE PRICE **$10.69** Reg. $17.95
For midget-base bulbs, only. With Standard Bracket and Connecting Cord.	For standard and midget bulbs. With Standard Bracket, Cord and Focusing Reflector.

For Special Reflex Camera Bracket (instead of Standard) . . . . . add 95c

Specify Camera and Shutter when Ordering.

Brand New . . . Drastically Reduced! TELEPHOTO and WIDE ANGLE ATTACHMENTS

Get the most out of your cameras with these lens attachments. Easily attached to the regular lens . . . ready for use in an instant . . . and quickly detached for normal shooting. No compensation in exposure of allowance in focus is necessary.

The GRUENEX TELEPHOTO brings "long shots" in close . . . cuts the distance almost in half.
The RAYDEX WIDE-ANGLE takes in almost four times the area of the normal lens.

For Still Cameras, as follows:

Ansco Speedex
Argus A2, 21, C2, C3, or C4
Bolsey B, B2, or C.
Ciro 35
Clarus f2, or f2.8
Kodak 35 RF
Kodak Bantam f4.5
Kodak Pony 828 or 35
Kodak Retina I
Kodak Signet
Kodak Tourist f4.5
Kine Exakta f3.5, f2.8, or f2.9
Leica Elmar 50mm f3.5
Mercury II
Perfex 44, 55, 101, or 102
Perfex DeLuxe
Praktiflex f3.5 or f2.9
Stereo Realist (2 Attachments Required)
Voigtlander Vito II

Telephoto or Wide-Angle, with Case, each **$15.95**
Both for **28.95**

For 8mm Movie Cameras, as follows:

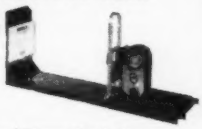
Revere
Bell & Howell
DeJur
Keystone

With Wollensak, Elgeet, Bausch & Lomb, or Bell & Howell Lenses; f1.9, f2.5, f2.8, or f3.5.

Telephoto and Wide-Angle Attachments . . . . . Both for **$14.95**

Please Specify Camera and Lens when Ordering.

Brand New . . . All Metal UNIVERSAL MOVIE TITLER



For All 8mm and 16mm Movie Cameras

Uses ordinary 4 x 5 title card or any copy or picture cut to size. Furnished with sharp-focus auxiliary lens and instruction book.

Reg. $5.95 SALE PRICE **$3.97**

"FAMOUS FOR FAIRNESS"

PENN CAMERA
LOngacre 4-2230
126 West 32nd Street
New York 1, N. Y.

20th ANNIVERSARY

Brand New! SLIDE PROJECTORS...

T.D.C.

For 2x2 Slides:	Mfg. List	SALE Price	Carrying CASE
A-1 150 watts	$34.75	$24.75	$5.99
A-2 200 watts	38.75	27.60	5.99
A-3 200 watts, Blower	48.75	34.70	5.99
B 150 watts	44.50	31.65	7.60
C 300 watts	54.50	38.80	7.60
D 300 watts, Blower	66.50	47.35	7.60
Mainliner 300 watts, Blower	58.50	41.65	7.60
Streamliner 500 watts, Blower	84.50	59.99	13.20
Professional 500 500 watts, Blower	99.50	68.65	11.99
Professional 750 750 watts, Blower	150.00	103.50	11.99
Stereo Projector 2-500 watt lamps, Blower	175.00	124.50	15.99
For 2¼x2¼ and 2x2 Slides:			
RN-5 150 watts	56.50	40.25	7.60
RO-5 300 watts	66.50	47.35	7.60
RP-5 300 watts, Blower	79.00	56.20	7.60

GOLDE

For 2x2 Slides:	Mfg. List	SALE Price	Carrying CASE
Manumatic 300 watt, Blower	58.50	43.75	9.60
Filmatic 300 watt, Blower and Case	90.25	65.75	....
For 2¼x2¼ Slides:			
Reflex 300 watt Blower and Case	86.50	64.71	....

GOLDE

For Slides to 3¼x4:	Mfg. List	SALE Price	Carrying CASE
Master 500 watt	76.65	57.40	10.40
Master 1000 watt, Blower	93.00	67.75	11.60

S.V.E.

For 2x2 Slides:	Mfg. List	SALE Price	Carrying CASE
Skyline A 200 watt	41.95	29.85	7.16
B 300 watt, Blower, f4 Lens	52.45	37.35	7.16
C 300 watt, Blower, f3.5 Lens	68.20	48.55	7.16
D 300 watt, Blower, f2.9 Lens	78.70	55.99	7.16
Entertainer 300 watt	83.50	59.45	11.97
Instructor 300, 300 watt	89.50	61.75	7.97
500, 500 watt	109.50	75.50	8.77
750, 750 watt	139.50	96.25	10.36
1000, 1000 watt	189.50	130.75	11.97

La BELLE

For 2x2 Slides:	Mfg. List	SALE Price	Carrying CASE
Mod. 302 500 watt, Blower and Case	154.95	111.00	....
Mod. 301, 300 watt, Case	129.60	93.25	....
Mod. 500, 500 watt, Blower	95.35	69.35	11.10
Mod. 200, 300 watt	68.90	50.75	11.10

Dabrite All Metal 2 x 2 SLIDE FILE

Smooth hammer-loid pressed steel, with subdivisions providing capacity for 300 slides in Readymounts, and 150, in glass. Index strips, hinged cover, snap-locks, and carrying handle.

SALE Price $2.09 each

3 or more $1.99 each

Dabrite MOVIE FILM REEL CHESTS All Metal

	Each		Each
#8-200. Capacity, 13—200 foot 8mm reels in cans. Value $5.00	$2.29	3 or More	$2.19
#8-400. Capacity, 12—8mm reels in cans. Adjustable for 200, 300, and 400 foot sizes. Value $6.00	2.89	3 or More	2.74
#16-400. Capacity, 12 — 400 foot 16mm reels in cans. Value $6.00	3.49	3 or More	3.29

Synchronize Your LEICA for FLASH!

Brand New

GEISS-KONTAKT

Reg. $19.50

SALE Price $8.95

For use with any Flash Unit with PC Cord. Works with Speedlights, too. Quickly and easily attached. Specify model of Leica Camera.

COMBINATION SPECIAL: Complete Outfit, consisting of a **GEISS-KONTAKT** and the New **PHILLIPS B C FLASH UNIT** designed for midget-base bulbs, and supplied with Connecting Cord, Battery, Capacitor, and Camera Bracket.....Complete SALE Price $16.95

15 Day Trial with Full Money Back Guarantee! One Year FREE Service!

All items offered subject to prior sale. Please estimate and add shipping and insurance costs. We'll refund every penny not used. If you prefer C.O.D., please send 10% deposit with order. Prices are subject to change without notice.

Marktime Automatic ENLARGING TIMER

AC and DC

SALE Price $5.95

Turns enlarger on', and keeps it 'on' for any pre-set exposure interval, from 1 to 60 seconds, and then automatically shuts it 'off'. "Set-Stop" permits repeat re-setting in total darkness.

Brand New! Drastically Reduced! ARGUS FILTERS and PORTRA LENSES

Solid Optical Glass — Metal-Bound Rims In Individual Clear Plastic Protective Cases.

Series 5	Vol.
Lt. Yel. (K2), Dk. Yellow, Green (X1)	$1.75

SALE Prices	Series 5	Series 6
EACH	79c	89c
3 or more EACH	70c	80c

Series 6	Vol.
Lt. Yel. (K2), Dk. Yellow, Type A	$2.07
Portra 1+, Portra 2+	3.46

PENN CAMERA, Dept. P552, 126 W. 32nd St., New York 1, N. Y.

Please send me the following.....

.....

.....

NAME .....

ADDRESS.....

CITY.....ZONE.....STATE.....

Check ☐ Money-order ☐ C.O.D. 10% Deposit Enclosed ☐

NOTE: Please estimate and add shipping charges.

GRAPHIC-GRAFLEX Accessories Brand New! 20% Discount!

For Graphic Cameras:	2¼x3¼	3¼x4½	4x5
Cut Film Holders	$3.04	$3.16	$3.24
Grafmatic Holders	11.88	.....	17.56
Film Pack Adapters	5.48	6.20	6.92
Roll Film Holders 2¼x2¼	15.16	17.20	17.20
Roll Film Holders 2¼x3¼	15.16	17.20	17.20
For Graflex Cameras:			
Cut Film Holders	3.80	4.08	4.36
Grafmatic Holders	11.88	.....	18.80
Film Pack Adapters	5.48	6.20	6.92
Roll Film Holders 2¼x2¼	15.16	17.20	17.20
Roll Film Holders 2¼x3¼	15.16	17.20	17.20

NOTE: *Graphic Grafmatic and Roll Film Holders are intended for Cameras equipped with Graflok backs. Earlier model Graphics with spring backs require an auxiliary spring kit, priced at*.....$1.24

PENN CAMERA

LOngacre 4-2230

126 West 32nd Street
New York 1, N. Y.

"FAMOUS FOR FAIRNESS"

..and You Can Pick Your Own TRADE DEAL at PENN!

Bartering is an old, old custom . . . and a good one, too. A man can Trade what he has, for what he wants, and spend less of his hard-earned cash. Trading is the backbone of the PENN organization, and over the twenty years of doing business PENN has built up a reputation for top Trade-In Allowances and fair dealing. So, let's trade . . .

35mm STILL CAMERAS

TRADE YOUR

. . . For one of These BRAND NEW . . .

		ARGUS C3 Case and Flash Unit	ARGUS C4 Case	BOLSEY B2	BOLSEY C	KODAK SIGNET
Argus C3 Coated Case and Flash	plus	. . . . .	$56.00	$28.00	$58.00	$44.50
Argus C3 Uncoated Case and Flash	plus	$32.00	63.00	35.00	65.00	51.00
Bolsey B2	plus	19.50	49.50	. . . . .	53.00	39.50
Bolsey B	plus	24.50	56.00	28.00	58.00	44.50
Kodak 35 RF Ctd. & Synchro	plus	19.50	49.50	23.00	53.00	39.50
Mercury II (f2.7)	plus	44.50	76.00	48.00	78.00	64.50
Argus C2 with Case	plus	37.50	69.50	41.50	71.50	57.50

8mm MOVIE PROJECTORS

TRADE YOUR

. . . For a BRAND NEW . . .

		Revere 90 with Case List $159.00	B&H Regent with Case List $179.95	DeJur 750 with Case List $159.50	Keystone K109 with Case List $159.00
Revere 85	plus	$72.50	$86.00	$71.00	$69.00
Revere 85D	plus	59.50	74.00	58.00	56.00
Kodak 33	plus	89.50	104.00	88.00	86.00
Kodak 70	plus	82.50	96.00	81.00	79.00
Keystone R8	plus	82.50	96.00	81.00	79.00
Keystone 68	plus	67.50	81.00	66.00	64.00

HERE'S HOW . . .

You find your own cash-cost difference on the line of the Camera or Projector you wish to Trade and in the column of the Brand New Camera or Projector you want to own.

For example: You can get a Brand New Kodak Signet Camera for your present Bolsey B2, in Trade, plus $39.50.

But, that's not all. If what you have to trade, or want to own, isn't listed . . . tell us the story, and we'll work out a deal.

LEICA OWNERS!

TRADE YOUR

Coated Chrome	
Summitar f2 plus	$89.50
Summar f2 plus	119.50
Elmar f3.5 plus	119.50
Xenon f1.5 plus	89.50

For a BRAND NEW

NIKKOR f1.4
Coated 50mm Lens

This is the Famous Japanese Lens which lists for $198.00, and about which there have been so many rave reports and comments from Photographers and Optical Test Laboratories.

Use This Convenient Coupon!

PENN CAMERA, Dept. P552
126 West 32nd Street, New York 1, N. Y.

(A) I am forwarding my . . . . . .
and enclose ☐ Check, ☐ Money Order for $ . . . . . .
Please send Me A Brand New . . . . . .
I have estimated and added shipping and insurance costs. Unused Excess will be Refunded. Note: 10% Deposit required on C.O.D. Orders.

NAME . . . . . .
ADDRESS . . . . . .
CITY . . . . . ZONE . . . . . STATE . . . . . .

(B) I have a . . . . . .
to offer In Trade for a ☐ Brand New, ☐ Used . . . . . .
. . . . . .

What's The Deal?

If I am not satisfied with this purchase, I may return the merchandise within 15 days and receive a Full Refund of my cash purchase price and the return of my Trade-In. I understand, also, that this purchase is covered by a **Written One Year FREE Service Guarantee,** furnished on delivery.

"FAMOUS FOR FAIRNESS"

PENN CAMERA
LOngacre 4-2230
126 West 32nd Street
New York 1, N. Y.

presenting the world famous AKAREX

35 MM CAMERA

the superbly-crafted AKAREX highlights a truly great photographic innovation . . .

Each bayonet mounted lens, with its *permanently attached*, combined, single-eye-piece, coupled range-viewfinder, forms *one integrated interchangeable unit*. This assures perfect alignment of optical assembly with *automatic parallax* compensation.

Other AKAREX highlights: Synchro-Compur Shutter to 1/500 second, internally synchronized for flash and strobe • Film transport and shutter cocking simultaneously by thumb-lever action • Double exposure prevention • Built-in self-timer • Exposure counter • Film speed indicator • Depth of field scale • Takes up to 36 exposures on standard 35 mm. black and white or color film • Full line of versatile accessories.

With Schneider-Xenon f2 lens . . . . . **$225.00** *list*
Leather Eveready Case . . . . . **$ 11.50** *list*

KELVILUX

COLOR TEMPERATURE METER

the new "must" in color photography!

• MEASURES directly the color temperature of any light source in degrees Kelvin, practically independently of its intensity. DETERMINES proper filter choice to assure perfect color balance. . . . . **$65.00** *list*

Deluxe fully automatic

SIXTOMAT

for incident and reflected light

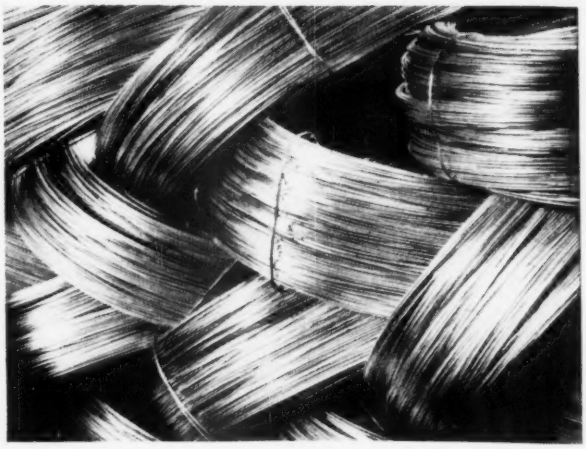
Just point and read! The Sixtomat remembers! The improved Sixtomat-1 solves every exposure problem with greater speed – simplicity, accuracy. ASA calibrations only. Jewel-beauty and precision performance make it your best meter buy!

Deluxe Sixtomat . . . . . **$28.50** *list*
Standard Blue Model . . . . . **$25.00** *list*

mitropa corp. • Sales & Service • 50 Broadway, New York 4, N. Y.

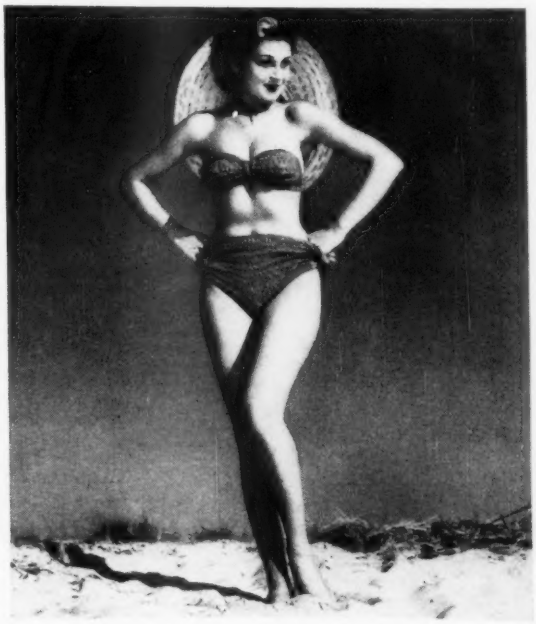
What graduates say about SMP training

Advertising Photographer Sheldon Machlin, among whose accounts are Harry Winston Jewelers, Johns-Manville, Monsanto Plastics, N. Y. Stock Exchange: "I've never seen a school to equal SMP. Classes are small, facilities ultra-modern."



Industrial Photographer Edward H. Schumm, now with a world-famous firm: "Though I'd been in photography for many years, it took SMP to give me real confidence, 'polish' and a broader outlook."

Color Photographer John D. Walker is a recognized commercial photographer who came to SMP "to brush up on the latest photo-techniques." Says John: "SMP's expert instructors, modern color labs can't be beat!" John has his own studio—is a Flexichrome color artist.



Publicity Photographer George Hagopian, employed by Chamber of Commerce, Hampton Beach, N. H.: "I chose SMP because of its excellent reputation: learn-by-*doing* instruction. SMP taught *me* how to make pictures that sparkle...that *sell!*"

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camera clubs by Whit Hillyer

Slides versus Prints—Must a Club Choose?

A RECENT LETTER from a sincere club official disturbs me. It seems that within his group there has developed a cleavage because the color shooters feel that too much house is given the print competitions and the black-and-white addicts can't see it that way.

Happily, another club communique reports the solution of an almost identical problem, and I pass it along to the first group and to others who may be interested. At a general meeting of the second club, it was decided that the programs could be arranged to include both color slides and black-and-white prints, to produce an agenda having genuine appeal to the entire membership (except, I suspect, for one or two die-hards). Under the new setup each member is permitted to bring a maximum of two slides and two prints to a meeting. The two types of work are discussed and analyzed by categories.

This exact method of doing business might not work in the case of a very large club—but in that event the entries could be limited to one slide and one print per member, which shouldn't cramp anybody's style too much. Show me the camera clubber who can knock out more than a dozen or so *really good* slides or prints in a year.

Other methods work well too, of course. Some clubs have two competitions per month, one for color, one for prints. And other highly successful aggregations concentrate their efforts on color only.

Actually, the two techniques should be complementary. Any photographer worthy of the name should be able to perform basic darkroom chores, including developing and enlarging black-and-white film. He should also know something about shooting color. Each technique has things to commend it. The expert in black-and-white learns the functions of photochemicals and how to make them yield good negatives and desirable print quality. He learns effective cropping on the enlarging easel. He has things in common with the etcher or the lithographer in using masses of tone advantageously. The color photographer, on the other hand, must learn to compose his picture with great accuracy before he trips the shutter. He must learn the meaning of real accuracy in exposure, without relying on emulsion latitude or remedial processes. And he must have—or develop—a sense of color harmony, akin to that of the painter.

He who refuses to bother with one or the other of these kindred techniques is half a photographer only. The person who is active in one but will observe the other receptively is certain to improve his own work. And the individual who has worked in both media will find pleasure in good photographs of any type.

After all, Benny Goodman can play Mozart and Brahms with the best of them. And Koussevitsky, as he conducted, knew the problems of the double-bass player in the back row—because he himself was the world's best on that instrument. Babe Ruth was a pretty fair pitcher, too.

Specialize, sure—but get the rudiments first, across the board.

Pro's Sponsor Amateur Club

Slanted particularly at those who wish to learn more about technique, the *Photocrafters* has been organized by commercial photographers Hal Coolidge and Hal Ramey in Los Angeles. Instructors who donate their time include Coolidge and Ramey; H. J. Mason and Mabel Westphal, commercial photographers; Ellen Fay, child portrait specialist, and Sue Lamont, commercial retoucher.

Instruction is given at all levels from box camera on up. Complete darkroom and studio facilities are available to students, who supply only their own film and paper. A lab fee of 50 cents per session is charged.

The organization, known formerly as Rosewood Photography Group, meets each Tuesday evening at 7:30, at 7268 Melrose avenue, Los Angeles 46, Calif.

We hear . . . that any camera club member passing through Raleigh, N. C., is urged to attend meetings of the *Raleigh Camera Club*. The town is a favorite stop-over point for north-south travelers, and the club meeting place is conveniently adjacent to U. S. Highway 1. For further information phone Edwin J. Oliver when you hit town. . . . In February I reported that the *Kwajalein Kamera Klub* was entertaining suggestions for a new name, so as to get away from the "KKK" designation. Now they tell me that the quest has been abandoned. In fact, a club bulletin, "The Kaleidoscope," is in the planning stage. It will have the dual purpose of providing increased publicity and giving members an opportunity to participate in photo-journalism. . . . *Toronto Camera Club* holds its 60th annual salon this spring, and will be 65 years old next year. Incidentally, a recent issue of *Toronto's* "Focus" provided some of the best controversial reading I've enjoyed for some time. Editor Rex Frost reprinted a piece by C. P. V. Forrest which ran originally in *Victoria* (B. C.) *Camera Club's* "Close Up," in which Forrest swung haymakers at international salons, the PSA, and the annual listing of top salon contributors. Then Frost came back hard to justify the existence of all three. Nice battle, with both boys landing effectively here and there. . . . The same spirit that keeps the Dodgers a paying proposition made a roaring success of the first annual All-Brooklyn Photographic Salon this spring. All entries were pictures taken in Brooklyn by residents of Brooklyn or members of Brooklyn camera clubs. The two best prints depicted scenes reminiscent of the north woods and an old-world city, respectively (why travel?). Runners-up were given honorary Brooklyn citizenship.—

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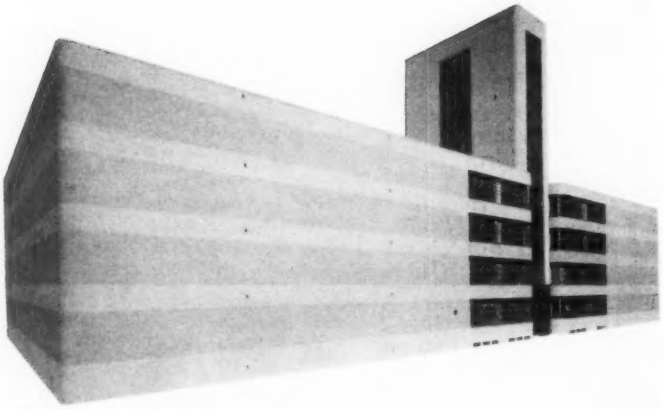

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1931 — Synchronized flash invented by Kalart. Left, a modern Kalart Speed Flash. Right, an early Kalart Speed Flash.

1936 — Synchronized range finder invented by Kalart. Inserts show how range finder indicates in focus and out of focus.

Inventions that Revolutionized

Kalart has pioneered in developing new ways to take the guesswork out of photography

ABOUT twenty years ago a New York press photographer sat at his desk and stared thoughtfully at his camera and the recently invented flashbulb. Flashbulbs, as he had discovered by experience, were a great improvement over flash cartridges and powders. They were handier, and they did not carry the danger of setting things (including the photographer) on fire.

But so long as a man had only two hands, taking flash pictures was complicated business, as the only way to use the new flashbulbs was to open the camera shutter—fire the bulb—then close the shutter.

Why shouldn't it be possible to trip the shutter and fire the flashbulb in one simple motion? Other photographers had talked about such a gadget, but to Morris Schwartz it became a personal challenge to *do* something about it. The result was the invention of the Kalart Micromatic Synchronizer—the first successful device that synchronized the firing of flashbulbs with the opening of the shutter and permitted taking flash pictures by just pressing a button.

News of the new invention spread like wildfire among other press photographers, and within a few months Morris Schwartz had ceased being a photographer and his Kalart Company had become the leading manufacturer of flash synchronizers — a position it still holds.

It was prophetic of the future of the Kalart Company that its first product was something never before made by any other manufacturer. The same has been true of items subsequently added to the Kalart line. Each has been a "first" of its kind—originated, invented, and first produced by Kalart—the only exception being the Craig line of movie editing equipment, acquired by purchase.

It is also significant that both Morris Schwartz, Kalart's President, and his brother, Hy Schwartz, Vice President and Sales Manager, started their business careers as photographers rather than as manufacturers. Thus, they understand the viewpoint and problems of the man taking pictures — and their constant aim has been to help him take the guesswork out of photography.

Making focusing fast and easy

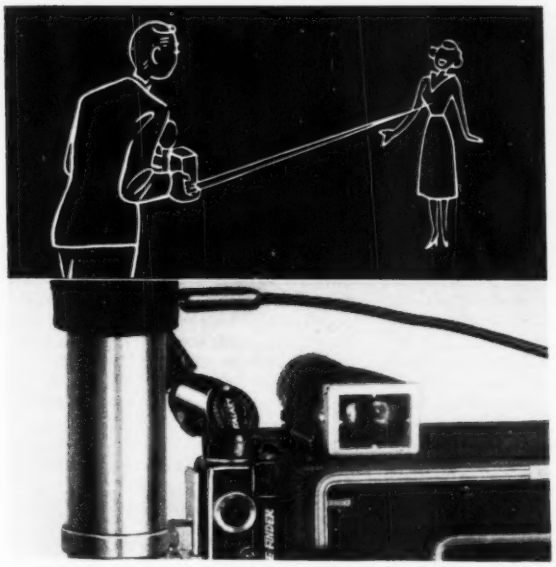
Up until 1936, focusing a camera was in almost as primitive a stage as when Mathew Brady photographed the Civil War. A photographer either had to focus on ground glass—a tedious and time-consuming process—or he had to guess at the distance from lens to subject.

In tackling this problem, the Kalart people rushed in where others had feared to tread. But they recognized the need — and they had the imagination and ingenuity to develop a practical solution — the Kalart Synchronized Prism Range Finder.

Coupled to the camera track, this device enabled the photographer to be sure of needle-sharp focus instantly. All he had to do was to look through a small window which showed two images of a section of his subject — rack the focusing knob back and forth until the two images merged —and he had perfect focus. The patented features of the Kalart Range Finder make it possible to adjust the Range Finder to the exact actual focal length of any lens normally used with any press camera. Today, it is rare to see a press camera without a Kalart Range Finder.

During World War II Kalart supplied its products in large quantities to the Armed Forces. But wartime did not stop inventing and in 1943 the Kalart Focuspot was placed on the market.

This ingenious device makes focusing in dim light or even total darkness as fast and accurate as daylight focusing with a Kalart Range Finder. As used on press cameras, the Focuspot is attached to the Kalart Range Finder. Inside the Focuspot is a small electric light; its rays are projected from the range finder windows as twin beams. "In focus" is indicated when the two beams merge on the subject.



1941—Focuspot invented by Kalart. How unit attaches to Kalart Range Finder. Above, how beams indicate correct focus.

1950—B-C flash with built-in test light perfected by Kalart. Flash of test light means flashbulb and firing system are OK.

Picture-Taking

A more recent Focuspot development is a unit for use with the Automatic Rolleiflex. Easily attached to the camera tripod socket, the unit contains a complete range finder, electric light and small batteries. Merging circles of light show when the subject is in focus.

Kalart's most ambitious creation is the famous Kalart "Camera of Tomorrow," the first fine precision camera with built-in flash, built-in range finder and Focuspot, electric shutter release and a host of other advanced features. While output has been limited, it is doubtful if any photographers are so enthusiastic over their cameras as those who own a Kalart. Moreover, the Kalart Camera has strongly influenced subsequent camera design.

Superpower Speed Flash

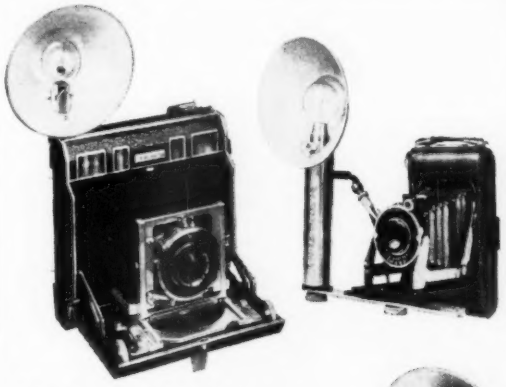
Newest in Kalart's long list of photographic inventions are its B-C Flash Units, which give photographers more safeguards against flash failure than any flash equipment ever made. For one thing, the batteries last about two years. For another, the flashbulb is fired by a new superpower method that always assures peak flashbulb performance.

B-C Multiflash was first developed by Kalart in 1935, but practical size units had to await the perfecting of modern miniature batteries.

An especially valuable and exclusive feature of the new Kalart B-C Flash Units is the built-in test light. With it a photographer can be sure—before he shoots—that the firing system is OK and that the flashbulb is OK.

All Kalart B-C Flash Units have provision for extension flash, and nothing better indicates their firing power than the fact that up to 6 flashbulbs may be synchronized simply by plugging in the necessary extensions. Moreover, the test light tests *all* of the flashbulbs and extension units.

In scarcely more than twenty years, Kalart has contributed to photography five revolutionary inventions: synchronized flash—the sychronized prism range finder—the Focuspot—the Kalart Camera—and B-C Flash; also such important improvements as quick-changing sockets, the flashbulb ejector and the concentrating reflector. Rarely has one firm accomplished so much in so short a time.



Other Famous Kalart Products

Left to right and top to bottom—Kalart II Camera—Kalart Deluxe Flash Unit on Kodak camera—Kalart Focuspot on Rolleiflex—Craig Projecto-Editor, for editing home movies.

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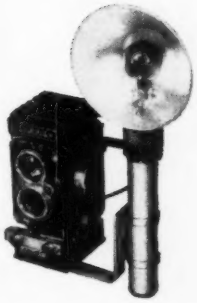

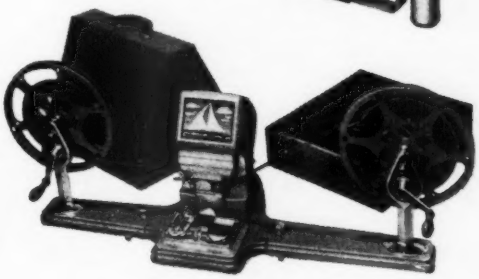

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tools and techniques

by Norman C. Lipton

A round-up of recent developments and significant trends

Ciné Camera for the Navy. A prototype model of a motion picture camera that permits automatic film loading under the most adverse weather conditions "whether the cameraman's hands are bundled in gloves or trembling with fatigue" was described before the Hollywood convention of the SMPTE last October by its inventor, G. J. Badgley of the U.S. Naval Photographic Center, in Washington. Outstanding feature of the Badgley camera is a novel film magazine which can be replaced in less than 10 seconds to permit practically continuous filming of combat action. The camera will serve as a production model for at least three Naval cameras—a combat version, a professional version in 16 and 35-mm and a television version. To permit the use of the camera aboard constantly vibrating aircraft, the lens turret is locked against the front plate of the camera with a large threaded clamp.

Ansco Color Negative-Positive. Late in January, we attended a preview of *The Wild North*, a Metro-Goldwyn-Mayer picture that had been scheduled for release in late March. This is the first Hollywood feature film to be released which had been produced by a color negative-positive process — specifically, Ansco's. The production was filmed on Type 843 Ansco Color Negative Camera Film with ordinary black-and-white camera equipment. Release prints were made on Type 848 Ansco Color Positive Printing Film with slightly modified black-and-white printing and processing machinery. For the various optical effects and projected background shots required in the normal course of production, separation positives made from the original color negative were printed on Type 846 Ansco Color Duplicating Negative Film and intercut with the original for release printing.

Hollywood has been encouraging the development of monopack color materials that can be exposed with ordinary black-and-white cameras for quite a few years, hoping to get away from the cumbersome separation cameras and other limitations of the basic Technicolor process. *The Man on The Eiffel Tower* (1950) which had been photographed in Paris on Ansco Color positive soft-gradation film and printed from separation negatives on Technicolor release material was a step in the desired direction. This film had its superior photographic moments, but the color quality was far from uniform. A second production filmed in Hollywood on the same material, *New Mexico* (released in 1951), demonstrated that the shortcomings of the first film were not entirely the fault of the unfavorable shooting conditions. The switch to a negative-positive monopack system was inevitable, providing it showed promise of equalling the quality feeling and uniformity of the better Technicolor productions.

The Wild North seems to come within a whisker of proving the case for the Ansco Color Negative-Positive Process. We found the color a pleasing integral part of the story for about 85% of the film's running time. Several interior shots and low-key scenes and an almost monochromatic sequence in a blizzard surpassed anything of the kind we could recall in previous color productions. However, a few scene changes were uneven in color quality, and the flesh tones of the principal actors' faces seemed at times to vary in an illogical manner. It may have been the make-up; possibly the unfamiliarity of MGM's personnel with the new process.

Whatever Hollywood's and the public's ultimate verdict, Ansco's new negative-positive system, which is covered by the basic Ansco Color reversal material patents, augurs well for the future of still color photography. It is becoming increasingly apparent that negative-positive color systems offer many advantages such as contrast and exposure latitude, and control over color quality which are not to be had in direct-positive color processes. Professional photographers and imaginative picture editors look forward to the day when there will be a color material that can be loaded in a 35-mm miniature camera from which high-quality professional size transparencies and prints can be enlarged with the greatest of ease. Ansco's new process may well be the key to such a system.

Odds & Ends. Details of the solarization method now being used by the Veterans Administration Records Center for making high-fidelity reproductions of x-ray images will be found in Vol. 2, No. 4 of *Photographic Engineering* (1951) — *Production of Radiographic Facsimiles*, by Bruce F. Denman.

. . . A self-contained B-C flashing unit mounted on a swivel which can be swung through an arc of 90 degrees, for bounce-flash, is now available in England—the Bilora Luxa-Flash. One of our eager-beaver acquaintances in the available-light fraternity recently located one that had been traded in at a New York specialty store and picked it up for $12. Looks like another backslider in our midst, thanks to a simple but ingenious British "first."

. . . Latest wrinkle in darkroom refinement is the inclusion of an oil of lavender derivative in Du Pont's new 18-F Universal Fixer—to mask out pungent acetic acid and sulfite odors.

. . . Kodak Ektachrome Film in the 120 and 620 sizes has been available since April 1 in a Type B emulsion balanced for 3200 K illumination . . . Ansco Color film has recently been released in the 828 roll film size to fit "Bantam" cameras.—

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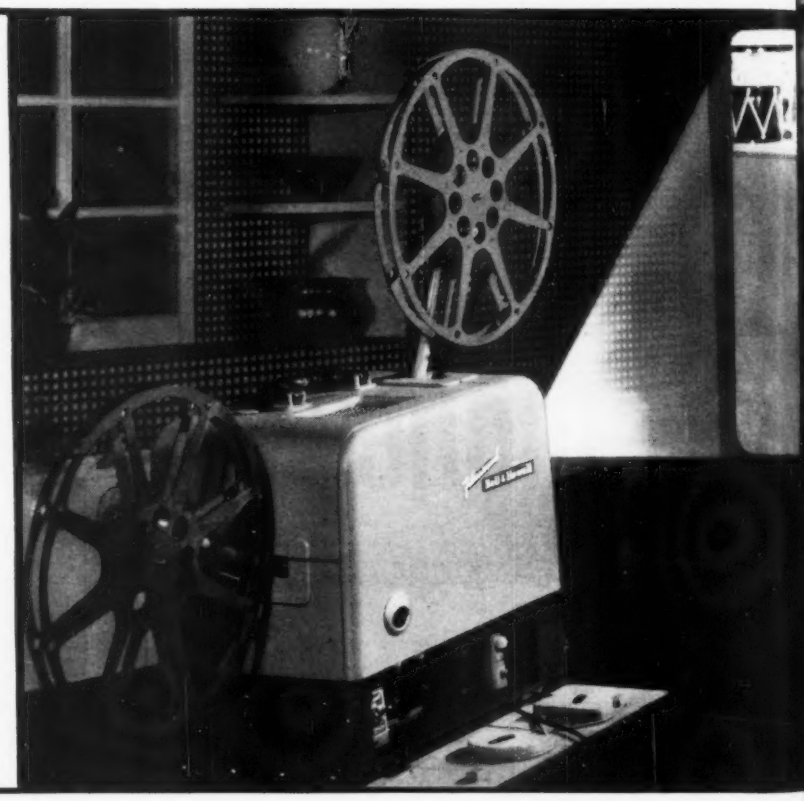

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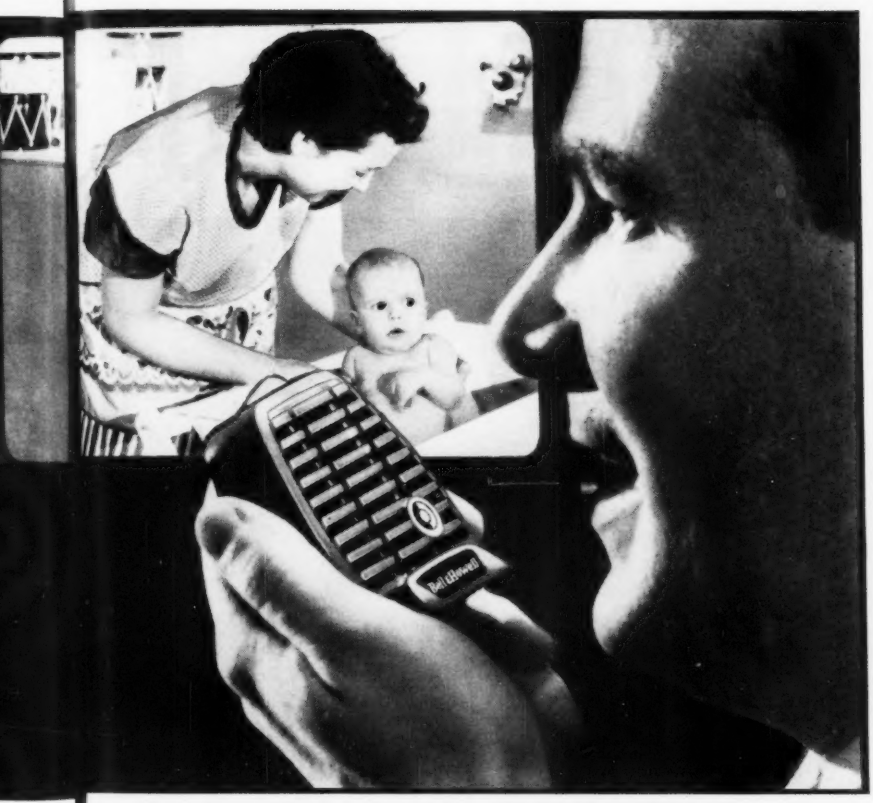
With the Filmosound 202, narration and sound effects to accompany the film can be recorded just the way you want them . . . while all details are fresh in your mind. Changes in the sound can be made when and as often as you want them. Only with magnetic sound movies is this possible at but the cost of the film and SOUNDSTRIPE.

Bell & Howell 70-DL camera now comes specially adapted for single-perforated film. After editing your processed film, take it to your Bell & Howell dealer for SOUNDSTRIPE—a magnetic track right on your film. When you get it back, you're ready to record.

Recording voice and sound effects, and mixing voice with musical background, are done as picture is projected. All recording errors can be easily and quickly corrected. Magnetic recording will last for the life of the film, yet can be changed instantly.

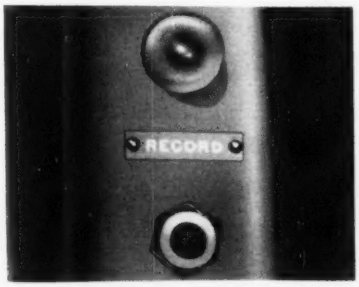
You're ready to project your movies with sound immediately after you record. Remember, your Filmosound 202 will project any 16mm film, silent or sound. Ask your Bell & Howell dealer how you can add sound to 16mm silent films you already have.

w-cost sound movies!!!!

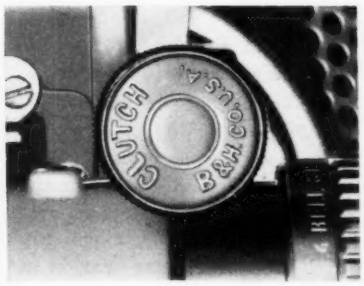


What you save on your first film will more than pay for the cost of equipment. With your Filmosound 202, you can add sound to old 16mm silent films . . . new sound to a film with an obsolete sound track . . . and project any 16mm film, silent or sound, black-and-white or color.

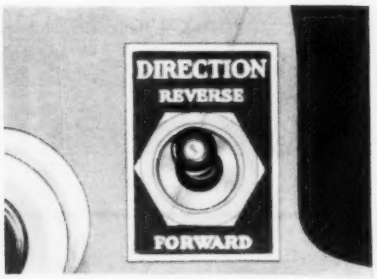
Use the coupon for full details on how you can use magnetic sound movies . . . how economical it is to own the Filmosound 202. Or see your Bell & Howell dealer today! Ask for a demonstration!



Interlocking feature prevents accidental erasure of recordings. This button must be pressed to put machine in recording position, and only then will previous recording be erased. Simple controls make the Filmosound 202 almost foolproof.



"Clutch" permits stopping film with picture on screen for "cue" marking. Optical and magnetic sound pick-up, record and erase heads are all positioned together as a unit. Synchronization of sound with picture is easily achieved.



Easy as talking on the telephone, you record sound onto magnetic track while projecting picture with Filmosound 202. Sound can be played back immediately and any recording errors accurately corrected in an instant with a flip of the reverse switch.

Add sound to silent 16mm film, then play back at silent speed to retain normal action. Add new sound to optical sound film without harming original sound track. Change from magnetic to optical track without varying sound quality. Musical background and sound effects are easily mixed with voice.

You buy for life when you buy

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45th B&H YEAR

Guaranteed for life: During the life of the product, any defect in workmanship or material will be remedied free (except transportation).

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Please send me, without cost or obligation, complete information on the new Filmosound 202 recording projector. I am interested in its use for:

☐ Home ☐ Industry
☐ Church ☐ School
☐ 70-DL movie camera

Name _____

Address _____

Organization (if any) _____

City _____ **County** _____ **State** _____

Now specially adapted for 16mm sound film!!

Perfect companion for your new Filmosound "202" ...latest Bell & Howell 70-DL movie camera

You're ready to make low-cost sound movies with a new Bell & Howell 70-DL!

This famous 16mm movie camera now takes single-perforated film . . . onto which the amazing magnetic sound track can be added. (How you can record sound is described on the two preceding pages.)

When you compare features, note the 100-foot film capacity, the 22-foot film run, the turret head that places three lenses at your fingertips, *seven* speeds including sound speed, parallax adjustment that corrects from infinity down to 3 feet, and the *positive* type viewfinder that lets you see what you take. Remember, too, every 70-DL is guaranteed for life.

With 1-inch f/1.9 lens only, $365.50. For further information, see your Bell & Howell dealer . . . or use coupon on previous page for descriptive literature.

And here's a suggestion! Why not have a demonstration of the Filmosound 202 using your own sound film. In this way, you can prove to yourself the worlds of exciting possibilities that exist in making your own sound movies.

You buy for life when you buy **Bell & Howell**

FREE SOUNDSTRIPE* of your first 100 feet of single-perforated film — that's what you get when you buy a new 70-DL . . . or have your present model 70 adapted. This is a special limited-time offer made by Bell & Howell to acquaint you with this wonderful new way to make sound movies.

Good news for present owners of B&H 70's

If you already own a Bell & Howell 70 camera, you can have it adapted to take single-perforated film as well as regular double-perforated film. This brings your camera right up-to-the-minute in usefulness. This is a factory conversion which you can arrange for through your Bell & Howell dealer for just $15.95. Same "free" SOUNDSTRIPE offer applies.

*SOUNDSTRIPE—the magnetic iron oxide stripe applied to single-perforated 16mm movie film for magnetic sound recording.

Prices subject to change without notice.

IN CASES WHERE QUALITY COUNTS... THERE'S NOTHING FINER THAN A DIAMOND

PAK-ALL C502—For Polaroid, large folding, or small press camera. Top-grain leather, suntan or oak finish. 8½" x 11" x 6" . . . $31.00. 4 other styles from $17.50 to $42.50.

C138—Kodak "Royal" Compartment Case for camera and accessories . . . $20.00.

GADG-IT BAG C906—For Polaroid, 2¼" reflex, or small press camera, plus accessories. Sleek new Kord-O-Van color. 8½" x 10½" x 4" . . . $27.50. 12 other styles from $10.50 to $49.75.

C149—Keystone 16mm, A7, A9 or A12. For f:1.5 or f:2.5 lens...$12. Also for f:3.5 lens, Model C148 . . . $10.50.

C211 — Kodak "Pony" 135 Deluxe Eveready . . . $8.75.

C225—Weston Master II Deluxe Eveready . . . $2.50. Also in Holster-type, C224 . . . $2.50.

THE TOP QUALITY LINE OF PHOTOGRAPHIC CARRYING CASES for EVERY NEED!

Wherever you find respect for good equipment, you'll find it kept in Diamond cases — recognized as tops the camera-world over. With good reason: in Diamond cases you'll find the superb workmanship and quality details of the most expensive custom luggage — the best in materials, the most meticulous attention to detail. Welt construction that keeps its shape for a lifetime; double-sewn seams; non-tarnish brass hardware, suede finished and velveteen lined pockets and compartments — everything that 35 years of know-how can produce for convenience, safety and smartness!

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Looks, feels, wears like leather . . . at a fraction of leather's price! All the quality details you expect of Diamond carrying equipment! Rich brown color. A complete line of 8 sizes, from $4.95 to $17.95.

For complete catalog, and name of nearest dealer, write:

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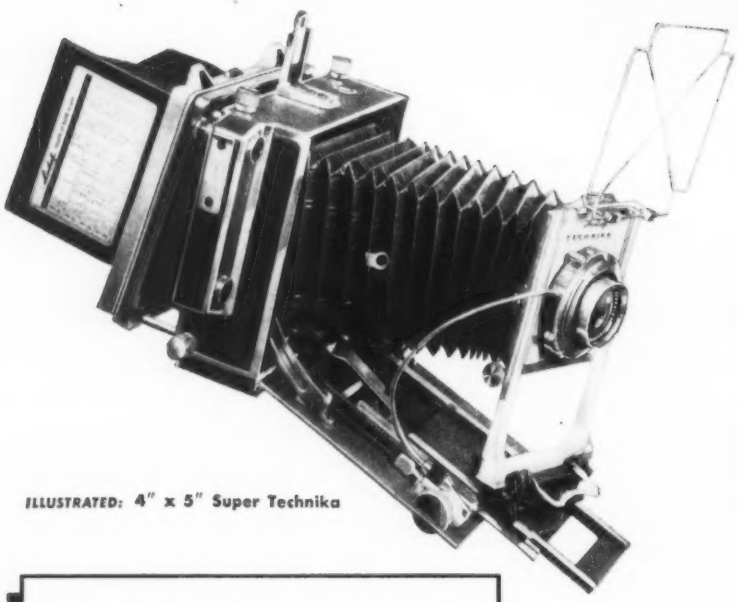
LOUIS LEFKOWITZ & BRO., INC. • NEW BRUNSWICK, N. J.



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For Peak Performance!

All models feature the MULTI-FOCUS Rangefinder (Couples many lenses), REVOLVING BACK, ALL Camera MOVEMENTS (tilts and swings), TRIPLE-EXTENSION Tracks and Bellows, RAPID Lens Interchangeability, PRECISION WORKMANSHIP, BEAUTIFUL DESIGN, and many OTHER EXCLUSIVE FEATURES found in no other camera.

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SUPER TECHNIKA CAMERAS
Are Beyond Comparison...

Model 2¼" x 3¼" — Embodying all the versatility of a professional view, yet retaining all the advantages of a miniature. Outstanding, are the TRI-CAM Disc coupling the MULTI-FOCUS Rangefinder with all three lenses, the SINGLE EYEPIECE VARI-VIEW OPTICAL FINDER, the AUTOMATICE DISTANCE SCALE, the Roll Film Adaptability, and a host of other innovations designed for better picture-taking.

Model 4" x 5" — The tried and tested all-around professional camera . . .a favorite with top-ranking photographers the world over. Interchangeable Coupling Cams permit rangefinder coupling with any number of lenses. Interchangeable Back and All Camera Movements provide facilities of unlimited versatility.

Model 5" x 7" — Identical in features and performance to the 4" x 5". The only 5" x 7" Rangefinder Camera. The only 5" x 7" Hand Camera.

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All Linhof Cameras take standard American holders.
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PSA

News and Notes about the Photographic Society of America

IN PLANNING your summer vacation and persuading the boss that just those two weeks are the perfect ones, keep in mind the PSA Convention which will be held in New York from August 12 through the 16th.

From the preliminary reports of the various committees, the program will be crammed with interesting and valuable sessions for every kind of picture maker. There is much conversation in the Society about the August date. Some are wary of "New York in August" and others are enthusiastic over "a convention before school opens." It is all a problem for the planners of the future conventions since no one can tell now whether August or October is better for the greatest number of PSA'ers and all the other photographers who enjoy and benefit from the annual show.

The program, though, and the records which show something over 200,000 visitors to the city each week in summer indicate that this 1952 Convention will be the biggest and best ever. You won't want to miss it!

The "Tops in Photography" show, which was originated by New York's Metropolitan Camera Club Council, this year's convention hosts, seems likely to become the tool which will create the highly desired local PSA activity throughout the country. It made its initial bow outside New York in Montgomery, Alabama, where more than 650 turned out to see the 300 prints and the excellent slides and movies.

Then it moved on to Memphis, Tenn., and since has been in Phoenix, Arizona. In May it comes back to Louisiana with performances in Baton Rouge and Lake Charles. In the shows to date, a most exciting reaction has occurred. Everyone wants more important PSA shows and other photographic events to be staged by the same local committees and clubs under the PSA guidance. Plans for more of them are in the making, and "Tops" looks more and more like the opening gun of a campaign which will interest photographers all over the country. After all, that's what PSA is for!

One part of this general program is expanding rapidly—the Recorded Lectures. The combination of pictures or slides and a tape-recorded lecture by a top-flight expert on a wide variety of subjects is available to camera clubs who are members of the Society. They furnish most helpful programs for clubs outside the usual track of those well known experts. To date the lectures have been chiefly concerned with pictorial technics, but many other kinds of lectures are now being recorded and will soon be available.

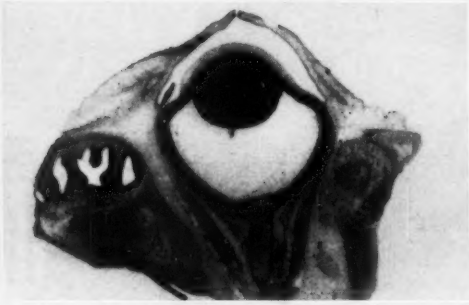
It all makes exciting news for photographers, but so is the fact that so many professionals are making their knowledge available to the Society. Things move, as you can see!—*P. S. Ayers.*

35mm Exakta VX

with Carl Zeiss pre-set diaphragm lens

Exakta for the Press Photographer

Exakta for the Medical Photographer



Exakta for the Portrait Photographer

Exakta Photography is the ultimate in picture taking. Exakta Photography is 35-mm., single-lens reflex photography — a revolutionary technique made possible by Exakta's famous, unique design.

When you take pictures with an Exakta, it becomes a third eye because you actually see through the lens. You see the image of your subject, exact in size, composition, detail and sharpness—as the lens will record it. Exakta Photography gives you absolute control of every phase of the photographic technique. And, of course, the Exakta VX is equipped with Carl Zeiss pre-set diaphragm f2.8 Tessar or f2 Biotar lens. Only when you see and handle the VX will you be able to understand fully what Exakta Photography is. We invite you to inspect the Exakta VX at your dealer.

The Exakta VX with the new f2.8 Zeiss Tessar "T" Coated Lens with Pre-Set Diaphragm Control is priced at $269.50 tax included.

Exakta VX with f2.0 Zeiss Biotar "T" Coated Lens with Pre-Set Diaphragm Control is $343.00 tax included.

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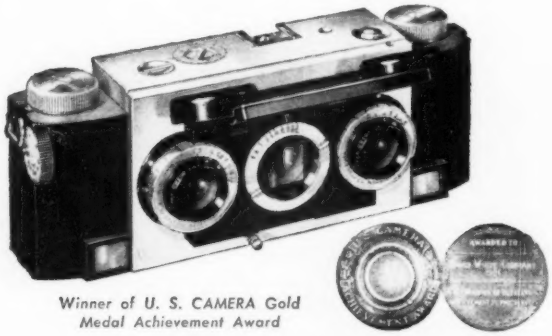
And with the Realist you don't have to fuss about perspective or composition . . . or memorize pages of algebraic formulae . . . or juggle a truckload of equipment. The Realist does the work. YOU get the enjoyment!

Realist pictures are a thrilling experience in lifelike three dimensions and glorious natural color. But, seeing is believing. If you haven't seen Realist pictures, ask your camera dealer to show you some. See for yourself how you can "take it easy" with the Realist. David White Company, 363 W. Court Street, Milwaukee 12, Wisconsin.



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THE CAMERA THAT SEES THE SAME AS YOU

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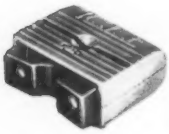
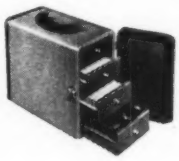
BUY THESE CUSTOM-BUILT REALIST ACCESSORIES AT YOUR CAMERA DEALER



New, Low-Cost REALIST Viewer
Only viewer in its price range with matched, achromatic lenses. Built-in light source. Pocket size, sturdy construction. Economical, but top quality.

Permamounts
The ideal mount for viewing and projection; 3 window sizes. Plastic-glass combination is durable, neat, easy to assemble. Adhesive backing seals firmly.



Slide & Viewer Carrying Case
Three drawers for 48 slides, one for viewer. Sturdy, plastic handle; two-tone brown tweed, plastic-impregnated fabric covering.

Announcing...

THE REALIST "HANDI-VIEWER"

The Finest Stereo Viewer in the Low-Priced Field...

at no Sacrifice in Picture Quality

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ONLY $9.50

The REALIST HANDI-VIEWER is the most viewer for the money on the market today. It has the same fine, matched achromatic lenses . . . brilliant illuminating system . . . and picture size as the finest viewer of all — the REALIST ST61. Attractively styled in three colors and sturdily constructed of heavy-duty plastic, the REALIST HANDI VIEWER lights up with slight finger pressure on the stereo slide. Focusing knob is centrally located so the entire viewing operation can be done with one hand. So compact it fits conveniently into man's suit-coat pocket. Ideally suited for mass viewer purchasers or for extra personal viewers. Available *now* through your authorized REALIST Camera dealer. DAVID WHITE COMPANY, 363 W. Court Street, Milwaukee 12, Wisconsin

STEREO Realist

The Camera That Sees The Same As You

Stereo-REALIST Cameras, Viewers, Projector and Accessories are products of the David White Company, Milwaukee 12, Wisconsin

candid shots by the Editors

Notes on A Crystal Jubilee

FIFTEEN YEARS is a short span, judged by some standards. But a lot can happen in that time when the field is as dynamic and fast-moving as photography. Just how great a change can occur we didn't realize ourselves until we began the job of surveying photography's growth as an art, industry, and hobby from 1937 to the present. Progress in every way has been so startling that those fifteen years well deserve the title of "Photography's Greatest Era." For exciting highlights and sidelights, turn to our special ten-page round-up beginning on page 36.

Putting together the Crystal Jubilee section called for plenty of research on the part of staff members and free-lance writers. The fat, red-bound volumes of past issues got a thorough workout as editors dug through them in search of facts, figures, and photographs. But the digging was a snap compared to what followed: cutting down the resulting mountain of material to fit available space. Inevitably we've had to omit much that was important, because there just wasn't room to include it all. So to the many deserving people, firms, and organizations we missed crediting individually (as well as those specifically mentioned), we extend our heartiest congratulations for their part in promoting photography.

PHOTOGRAPHY, launched in 1937 as POPULAR PHOTOGRAPHY, also has grown quite a bit in the past 15 years. If any long-time readers of the magazine still have copies of the first few issues they might get a kick out of comparing them with the current number. Old issues of magazines, like old attic trunks, are fascinating to rummage through: you find the oddest things.

One interesting tidbit we resurrected was an article by Harry Champlin in the June 1938 issue. Champlin was an expert on fine-grain developing, and predicted what the camera of 1950 would be like. Among other features, his brave new camera would have a photoelectric cell to set the correct stop opening automatically, an automatic rangefinder, a rapid-exposure device permitting 24 pictures to be shot in quick succession, and films with emulsion speeds of 1000 Weston and greater!

Owners of 35-mm cameras today might be interested in a controversial article which appeared in the August 1937 issue. The question posed was, "Will the Miniature Camera Survive the Candid Camera Craze?" "No!" said Thomas H. Uzzell, who pointed out the great expense of a high-quality 35-mm outfit and warned, "There is just one thing they (miniature cameras) can't do and apparently are never going to be able to do. *They can't make clear pictures!*"

International Picture Contest

Looks from here as though lots of you were on tiptoes waiting for first announcement of PHOTOGRAPHY'S 1952 Annual International Picture Contest—the event of the year in any photographer's book. No sooner was last month's issue on the newsstands with the announcement of the $25,000 picture sweepstakes than we were struck by the advance guard of contributions. But we've battened down the hatches and cleared the decks for the kind of action we've come to expect in previous contests. Last year the judges pored over 56,000 prints and transparencies; this year they're prepared for even more. If your entry isn't already in the mail, pack up your best work now and send it on its way. Closing date is July 15, but that day will be here before you know it! If you missed the announcement last month, turn now to pages 192-193, where you'll find all the rules, a list of the prizes, and an entry blank.

TV Picture Contest

"Have you made any unusual off-the-screen TV pictures lately? We'd like to see them if you have." That's the way it started, with an announcement at the end of our article titled "TV—Photography Without Film" in the February issue. Response to the invitation was far beyond our expectations. Thousands of you made good use of the brief tips we gave for TV shooting, and sent us your prints. We got everything from mounted 11 x 14s to contact prints in which the screen image was the size of a 35-mm frame. Judging has been difficult, taking into consideration not only technical excellence but that combination of luck and skill which enables the photographer to get his shot at just the right instant. With thanks to every one of you who showed your interest by entering the contest, we take great pleasure in announcing the following six winners of $25 awards: Lou Dorfman, Brooklyn, N. Y.; H. T. Seymour, Arlington, Va.; James J. McKenna of Flushing, N. Y.; Nestor Henrion, Monongahela, Pa.; G. L. Bradley, Brookfield, Ill.; and Dick Hedges, North Hollywood, Calif.

Photography — John Gallagher

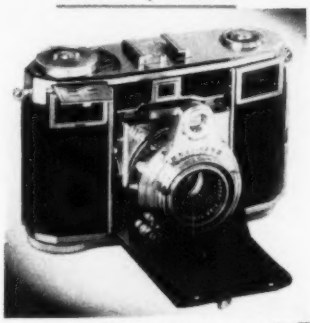
"You mean this isn't your wine cellar?"

Patience, Please!

Color contributions to Pictures from Our Readers are still arriving in almost as heavy volume as during the first month of our offer. That means there's a pretty terrific burden on our clerical and picture-evaluating staffs, and there has necessarily been more delay in returning slides and prints than usual. We're catching up nicely now, however, and we've organized the handling of this material so that it is not held here longer than absolutely necessary. We want you to know

(*Continued on page* 236)

SAVE $98.00



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Tessar F:2.8 Ctd. Lens Coupled Rangefinder
Speeds: 1 sec. to 1/500
Built-in Lightmeter
Built-in Flash
Reg. $214.00—used

$116.00

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Leica D, Elmar F:3.5		$ 78.00
Leica G, Summar F:2		129.00
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35mm Elmar F:3.5 W.A.	96.00	49.00
35mm Summaron F:3.5 W.A.	122.40	76.00
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35MM

Ansco Karomat 36 F:2 Ctd.	$164.00	$ 98.00
Argus C-III, F:3.5, Flash, Case	69.50	39.50
Argus C-4, F:2.8 Ctd., Case	107.00	62.00
Bolsey "B", F:3.2, Ctd., RF	61.50	36.00
Bolsey "B-2", F:3.2 Ctd., RF	73.50	46.00
Bolsey "C" Reflex, RF	109.50	66.00
Kodak 35 Rfdr. F:3.5	86.75	46.50
Kodak Ektra F:1.9	.....	205.00
Mercury II, F:2.7	41.50	22.50
Retina II B, Xenon F:2 Synch.	108.00	.....
Retina II A, Automatic, F:2	164.10	114.00
Robot II Xenon F:1.9 Ctd.	108.00	.....
Stereo Realist F:3.5 RF	159.50	108.00
Tenax II Tess. 2.8, Rfdr	.....	74.50
Voigtlander VI to II F:3.5	54.50	34.00

KINE EXAKTA

Kine Exakta I, Tess F:3.5		$89.00
Kine Exakta II Biotar F:2		154.00
Kine Exakta V, Biotar F:2	313.75	218.00
Kine Exakta VX, Tess F:2.8	269.50	.....
Kine Exakta VX, Biotar F:2	343.00	.....
35mm Retrofocus F:2.5 W.A.	99.50	72.00
75mm Biotar F:1.5	216.50	138.00
135mm Xenar F:4.5 Tele	58.75	38.00
180mm Tele-Xenar F:5.5	94.15	58.00
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	NEW	USED

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[illegible]	266.00	.....
[illegible] 2.5, case	.....	68.50
[illegible] outfit	134.00	.....
Super D Graflex, [illegible] Diaphr., Ektar F 4.5	246.75	138.00
4x5 Super D Graflex, F 5.6	269.75	157.00
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Ciroflex, F:3.5 Alphax	$ 75.60	$ 44.00
Ciroflex, F:3.5 Rapax	97.65	58.00
Ciroflex, Rapax Synchro	117.35	79.00
3¼x4¼ Super D Graflex	246.75	138.00
Hasselblad Ektar F:2.8	548.00	394.00
Ikoflex IIA, Tess. 3.5 Synch.	176.00	112.00
Master Reflex, Primotar 3.5	189.50	133.00
Rolleicord III Xenar 3.5	149.50	.....
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Auto-Rolleiflex, Tess. 3.5	.....	158.00
'XM' Auto Rolleiflex Tessar 3.5	285.00	189.00
'XM' Auto-Rolleiflex, Xenar 3.5	265.00	168.00
Rolleiflex 35mm Adapter	35.75	26.00
Medaflex II, Ektar F:3.5	297.50	167.00
Minox 'Spy' Camera F:3.5	71.50	38.00
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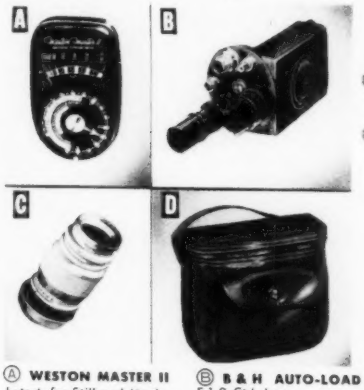
Super Ikonta A Tess. 3.5	162.00	86.00
Super Ikonta B Tess. 2.8	236.00	89.00
Voigt. Bessa II, R.F. Skopar 3.5	124.00	68.00
	NEW	USED



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F:1.9 Ctd. Lens.
BRAND NEW $118.00
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Ⓓ **GADGET BAG**
8½"x10"x3½" zipper top. Pouch pocket. Slightly imperfect.
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[illegible] Turret	158.00	.....
B&H Autoload, F 1.9 foc.	118.00	.....

PROJECTORS—8 & 16mm

B&H Regent 500 W.	$169.50	$108.00
DeJur 750 W.	149.50	88.50
Keystone K68, 750 W.	114.50	66.00
Revere Mod. 85, 500 W.	134.50	69.00
Revere DeLuxe Mod. 90, Case	159.50	89.50
Keystone A82, 750 W.	119.50	73.50
Keystone K 160, 750 W.	139.50	77.00
B&H Filmosound 185C	449.95	289.00
B & H Magnetic Sound Projector	699.95	.....
Revere Sound	325.00	189.00

CAMERAS—8mm & 16mm

B&H Companion, F:2.5	$79.95	$48.00
Bolex L-8, F:2.5	99.50	53.00
Bolex H-8, F:1.9	318.00	168.00
B&H Auto 8, F:2.5, Latest	134.95	92.50
DeJur Citation F:2.5	77.50	38.00
De Jur Mag. 8 F:2.5	106.95	63.00
Kodak Mag., 90, F:1.9	150.95	87.00
Revere 50, Latest, F:2.8	49.50	38.00
Revere Ranger, F:2.5	74.50	42.00
Revere B61 Mag. F:1.5	112.50	68.00
Revere B63 Mag. Turr. 1.9	167.50	98.00
16mm B&H Filmo 70DA F:1.9	.....	188.00
B&H 200 Mag., F:1.9	214.95	.....
Bolex H-16, F:1.5	343.00	178.00
Cine Special F:1.9	.....	375.00
Kodak Mag. F:1.9 Ctd. Foc. Mt.	.....	88.00
Revere Mag. F:1.9	182.50	108.00

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Norwood Director	32.95	19.75
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Star 'D' 2¼x2¼, Blower	39.50	.....
SVE 'Skyline' 300 W. Blower	52.45	31.00
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Golde Reflex 2¼x2¼ 300 W.	86.50	52.00
La Belle 500 W. Automatic	95.35	59.50
DeJur Versatile W. F:4.5 Lens	126.50	74.00
DeJur Versatile II W. F:4.5 Lens	99.50	37.00
	NEW	USED

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SAVE $43.00

- **Xenar F:3.5 ctd. Lens**
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- **Eye-Level Focus**
- **Automatic Filmstop**

BRAND NEW

$89.50

- **E. R. Case, $9.25**

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CRYSTAL JUBILEE ISSUE

Commemorating a birthday and reviewing **15** *years of exciting photographic progress*

We pause to celebrate

This is the 180th issue of PHOTOGRAPHY and the fifteenth anniversary of our magazine. We think it is an occasion to pause, to look back over fifteen of the most exciting years in the history of photography, and to review some of the highlights which made them memorable.

During these stupendous years of peace and war the story of the camera's role in our civilization has been faithfully reported and brilliantly interpreted in these pages. When our first issue appeared in 1937, Daguerre's invention was just two years short of being a century old. By this time, thanks largely to George Eastman's pioneering, virtually the whole civilized world was populated by snapshooters. As a hobby, photography was booming. Miniature cameras, including the twin-lens reflex, were already achieving popularity. Kodachrome film had opened up great, new exciting vistas of color, and new products were coming to market every week. A whole new generation of amateur photographers was growing up. But there were no popular magazines to guide and lead them.

To meet this widespread need our magazine, then called POPULAR PHOTOGRAPHY was brought into being. Existing publications, failing to keep pace with photography's tremendous growth, appealed only to a restricted group of photographic initiates. The new magazine blazed new trails by setting its course on the vast stream of eager-eyed men and women who were pouring in and out of the nation's camera stores.

The advent of POPULAR PHOTOGRAPHY in May, 1937 was an event in far-sighted audacious publishing. In the face of a top circulation figure of 20,000 for the most popular of the established magazines at the time, Ziff-Davis top brass decided to print 150,000 copies! The story of that first issue, why it sold out in 48 hours after hitting the newsstands and had to go back on the presses for another 150,000 run, is told in more detail on page 40.

With that first issue, POPULAR PHOTOGRAPHY leaped to unchallenged leadership in the photographic field. For fifteen years that leadership has remained unchallenged. It has grown and continues to grow steadily in prestige, circulation and advertising lineage. Its staff has been inspired to a high sense of service commensurate with the devotion it has found among those dedicated to the photographic arts and industry.

The years have brought changes, innovations, improvements. The word "popular" was dropped from our logotype this year, ushering in a new period of maturity. We have begun plasticizing our covers, devoting more pages to the reproduction of outstanding color photographs. This year, too, for the first time in any photographic magazine, we threw open our fifteen-year-old *Pictures From Our Readers* department to color with results of which we are enormously proud. A glance at the spread on pages 58 and 59 will show you why.

Small wonder that we are bursting with pride in this our Crystal Jubilee issue! That's why we've taken space to look back, review what we've done during those exciting fifteen years, reprint some of the memorable pictures that have appeared in our history-making pages. In reviewing these events, we have selected from among their peers for special citation a representative list of individuals and firms who along the way have made especially significant contributions to the advancement of photography.

In the best sense this is a celebration not only of the achievements of PHOTOGRAPHY magazine, but of the photographic arts, sciences and industry, which in themselves could not prosper without the countless millions of people whose lives in one degree or another are devoted to the modern miracle that is photography.

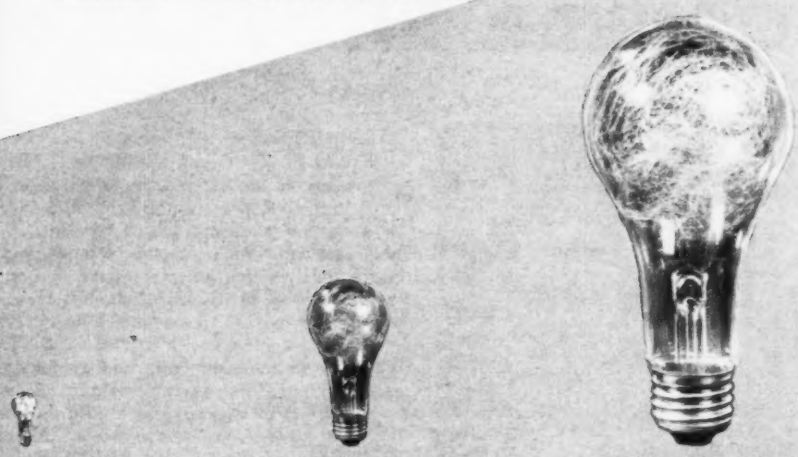
Bruce Downes

Executive editor

THE PAST
15 YEARS

WE LOOK BACK ON A GREAT ERA

FLASH PHOTOGRAPHY AND HOW IT GREW



1937
6,568,000 flashbulbs sold

1944
31,165,000 flashbulbs sold

1950
232,806,000 flashbulbs sold

These figures do more than measure the amazing growth of flash photography—they also indicate the dramatic increase in all photographic activity.

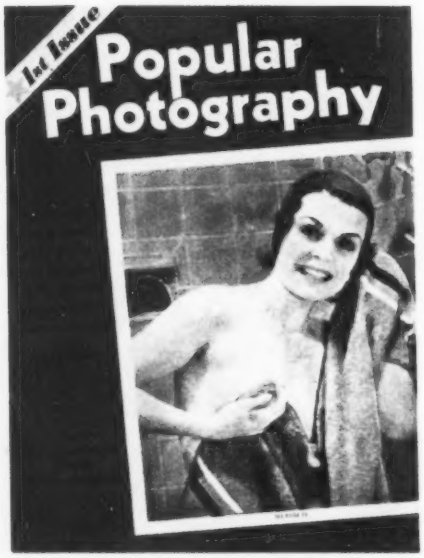
Symbolizing photography's popular appeal are huge crowd thronging National Photo Show in New York (left) and graph showing rise in sale of flashbulbs from 1937 to 1950 (above).

Our magazine grew up in photography's greatest age of expansion —as a hobby for millions, a vigorous art, a mammoth industry

WHEN POPULAR PHOTOGRAPHY first hit the newsstands in 1937 it came as a journalistic trail-blazer, a magazine dedicated to the proposition—daring in those days—that photography belongs to everyone. "Pop Photo," as it soon came to be nicknamed, devoted many of its pages to lively how-to-do-it articles, and spread the cheerful gospel that photography is a lot of fun. But it did more than that, or it never could have held the lead against the many imitators that soon arose.

From the first, POPULAR PHOTOGRAPHY chronicled the passing photographic scene, threw a spotlight on outstanding personalities in the field, reported the exciting new developments that came pouring from research labs and production lines of a fast-growing industry. It was a dynamic era of expansion for photography as a hobby, an art, and an industry. Just how tremendous that growth has been is shown by market surveys, sales figures,

POPULAR PHOTOGRAPHY:



Our first issue, May, 1937, boasted cover in full color, promised answers to all questions about photography. It sold out in 48 hours.

THE MAY, 1937 issue of POPULAR PHOTOGRAPHY was a sell-out. Why did it win such hearty approval from camera fans? The answer is not hard to find. Volume 1, Number 1 sounded a fresh note in photographic journalism, offered stimulating you-can-do-it-too articles and illustrations, made photography seem easy and enjoyable. Let's take a closer look at that first issue.

For one thing, POPULAR PHOTOGRAPHY boasted an eye-catching cover in full color—the first time a camera magazine ever had tried such a thing. And the teaser list of contents, printed in black against a green background, promised the reader a mouth-watering bill-of-fare: *Photo Kinks, Candid Shots, Home Movies, Common Errors, Tricks Exposed, Photo Markets, Exposure Charts, Color Photography.*

Inside, delighted camera fans found just the kind of practical, inspirational stuff they'd been hungering for—76 pages of it. The editors were generous: they squeezed in 22 feature-length articles plus more than 30 shorter items ranging from one-paragraph quickies to 300-word stories with pictures. They also ran more than 150 black-and-white illustrations plus several line drawings.

The result was a camera magazine quite unlike any existing publication. In 1937 most photographic

continued
from preceding page

and—less exactly but more dramatically—by the impact of photography on every phase of modern life.

Here is the picture: In 1937 about 17 million cameras were in active use in the United States, according to a reliable estimate. Today the number is estimated to be anywhere from 30 to 50 millions, with nearly three-fourths of America's 43½ million households owning or using one or more cameras. This means that cameras have become almost as common as refrigerators or bathtubs!

Or compare the sale of flashbulbs. According to a recent survey by Sylvania Electric Products, the total consumption of flashbulbs in 1937 was about 6½ million. By 1950 the annual total had leaped to the startling sum of 232,806,000—an increase of more than 35 times!

Look at the yearly financial statement of Eastman Kodak Company, a mammoth segment of America's photographic industry. In 1937 the company reported net sales of $136,114,878.42. In 1950 the total reached $461,389,980.00. Although these figures include the sale of some non-photographic products, they do point out how greatly the photographic market has expanded.

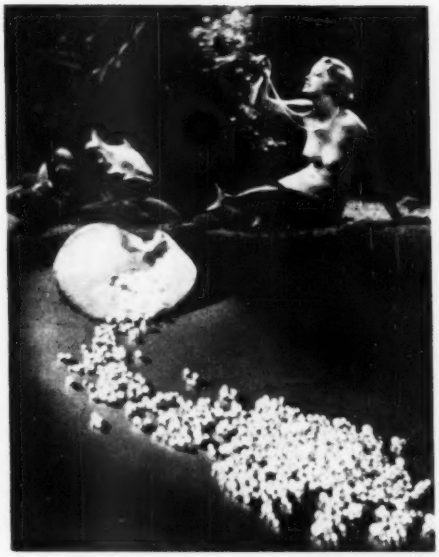
But that's not the whole story. To these figures add motion pictures, photographs made by professionals, microfilms, X-rays, the mighty volume of photography applied in industry and research. Think of the millions of pictures printed every day by newspapers, magazines, advertising agencies,

VOLUME ONE, NUMBER ONE

journals were aimed at special little groups—salonists, technical-minded experts, and advanced amateurs. A great void lay between them and the millions of casual snapshooters who were content with simple record shots of friends, family, and vacation scenery. How great that void was, not even the editors realized until they began hunting for pictures to fill the first issue. Aside from salon prints, most of which were too tame, they found very little they could use.

So the staff took to making its own photographs, experimenting with new ideas, manufacturing innovations right in "Pop Photo's" studio. They glamorized the unglamorous, thus introducing a camera activity that has continued in popularity through the years. They, for instance, brought in nondescript characters off the street, dressed them up in the studio to look like important personages. The first cover (reproduced with this article) itself was an experiment.

What the editors did in the studio, they described in the magazine. They felt that cameras were not being used enough and guessed that perhaps the reason lay in the scarcity of picture-making ideas. So they spread ideas around, pointed up the many possibilities offered by photography as a hobby, and tried to stimulate (*Continued on page* 223)



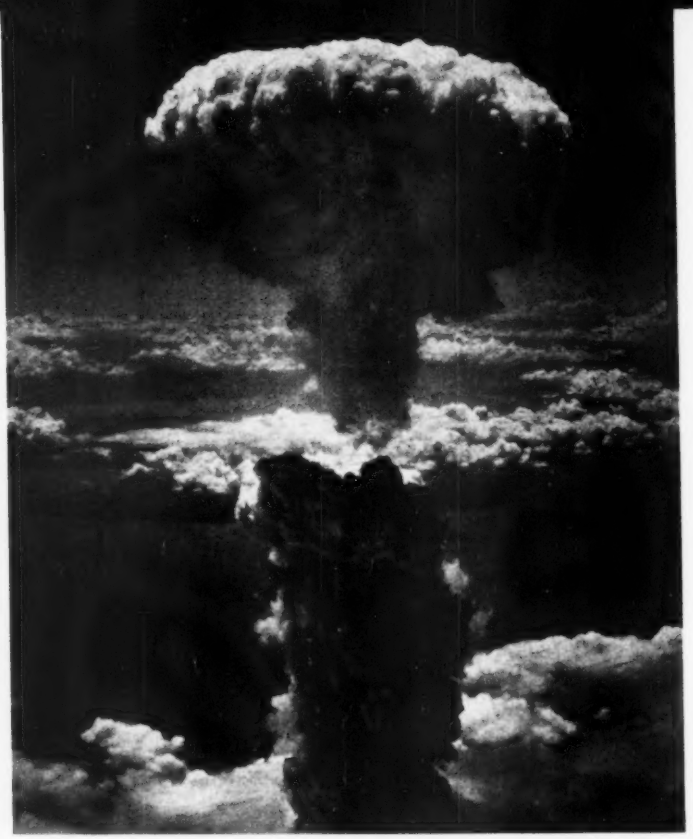
Pearl Study, famous montage by Harry K. Shigeta, ran in picture section of first issue. He combined three negatives to make this print.

educational institutions. Put them all together and the staggering total gives you some idea of photography's immensity and importance today.

POPULAR PHOTOGRAPHY kept pace with this mushrooming field and grew along with it. Forty-five writers and sixty-eight photographers, mostly from Chicago, contributed to the first year's issue. But it wasn't long before the list of writers and photographers grew to several hundred annually, and contributions poured in from the four corners of the world. The magazine gradually began to de-emphasize the "Popular" in its title, and eventually (with the January, 1952 issue) became simply PHOTOGRAPHY.

From the start, POPULAR PHOTOGRAPHY kept a sharp eye peeled for new talent, and the magazine was among the first to recognize and encourage many little-known photographers who later became world-famous as masters of the camera. In December, 1937, appeared a story about one Arthur Fellig, who, the writer pointed out, "is known to his colleagues as Weegee." (Today everybody knows Weegee, but who remembers him as Arthur Fellig?) In April, 1938, the magazine printed a sequence of five pictures showing a summer flirtation reflected in a pair of sunglasses. The contributor?—David D. (for Douglas) Duncan, at that time an "amateur photographer of Coral Gables, Fla." During World War II, POPULAR PHOTOGRAPHY beamed its editorial spotlight on a daring young combat photographer, put him on its staff as the first war correspondent ever accredited to a photographic magazine. Today he is acclaimed as (*Continued on page* 224)

THE PAST
15 YEARS



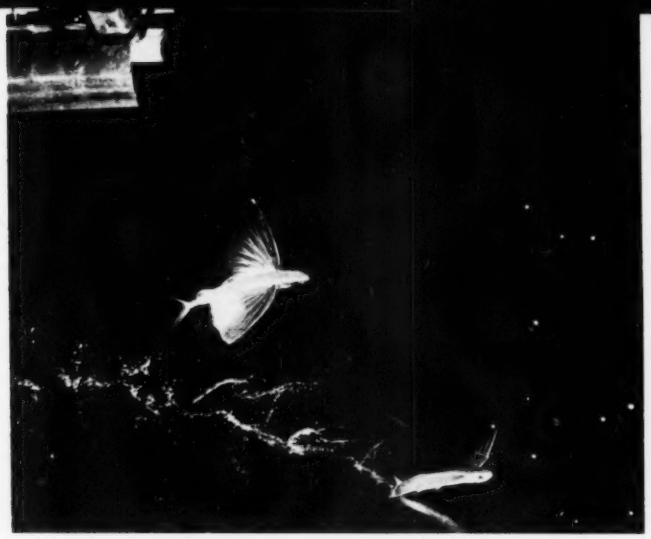
War-time photography is epitomized by this official U. S. Army Air Force aerial photo of atomic bomb burst over Nagasaki, Japan.

A review of progress

Significant equipment and materials developments

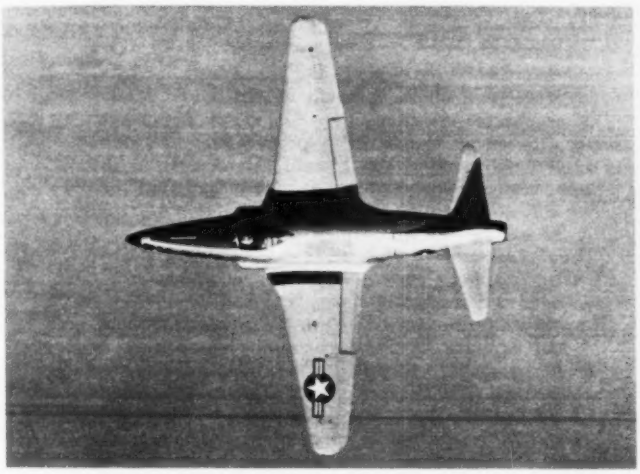
FIFTEEN YEARS is less than one eighth of the total life span of photography, first launched in 1839. It has progressed technologically in a series of spurts, each one novel in aspect and forceful in character and yet derived from the one behind it. The last great spurt started in the early nineteen-thirties, and has encompassed the full fifteen years of existence of this magazine. It is still spurting.

In 1937, we had felt the impact of modern color photography, for Kodachrome film had been brought out in 1935. We were feeling the growth of photography with the miniature camera touched off by the launching of the Leica back in 1924. Fine grain was a matter of concern to many photographers. Although panchromatic film had been available for quite a few years, it wasn't until POPULAR PHOTOGRAPHY'S inaugural year that the first really fast pan emulsions, Agfa's Ultra-Speed 35-mm film and Superpan Press sheet film, were introduced to the market. It was at this time that indoor photography at home by artificial light first came into its own thanks to newly available fast films and flood and flash lamps. The amateur was taking photography more seriously and darkroom hobbies were rampant again.

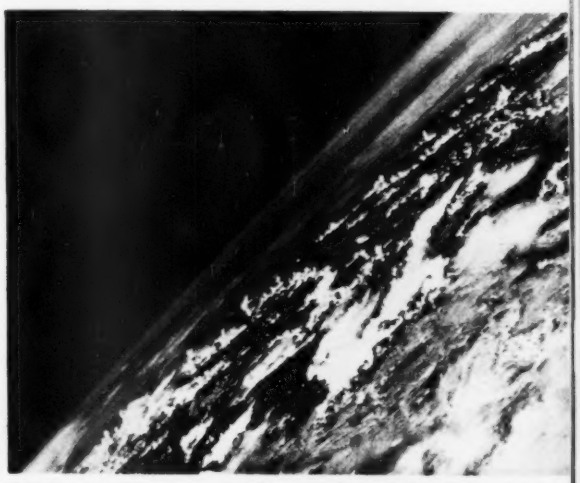


Electronic flash photograph of flying fish in full flight was exposed at 1/10,000 sec by Prof. H. E. Edgerton who developed light source.

Diver-photographer adjusts focus and lens diaphragm of Aquaflex 35-mm underwater motion picture camera, of French manufacture.



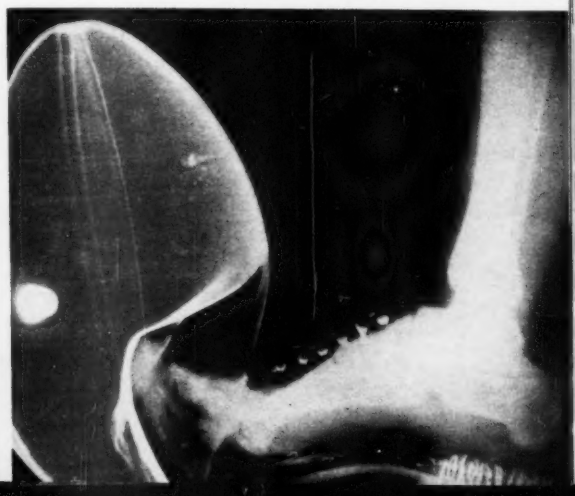
F-80 jet plane photographed with S-7 moving strip camera with 24-in. lens from second plane above it; relative speed is 1,000 m.p.h.



Earth's curvature, haze, clouds, and "black-daylight" sky are automatically recorded from 57-mile altitude by rocket-mounted camera.

Audience-reaction studies can be photographed in total darkness with infrared film using flashbulbs coated with an infrared dye filter.

Classic high-speed x-ray photograph of player kicking football was exposed by special electronic flash unit at 1 millionth of sec.



Some of the important "firsts"...

Reflector flood lamp was introduced in 1939 by Wabash Corp., now part of Sylvania.

B-C flash circuit using miniature "B" battery and electrolytic capacitor was first used in Jen-Flash II in 1949.

One-step, 60-second photography became a reality with the perfection of the Polaroid-Land camera in 1948.

In 1943, Ilex introduced internally synchronized shutter with 0 to 23-ms delay range.

continued

from preceding page

Color motion pictures appeared more frequently in the theaters, and the newspapers and magazines used more photographs.

The big thing, of course, was color photography, which has grown at an extraordinary rate recently and is continuing unabated. The first impetus came with the introduction of Kodachrome for amateur motion pictures in 1935, but this was soon followed by Kodachrome for 35-mm miniature cameras, the 8-mm type, and eventually the sheet film type for professionals. In 1936, Agfa in Germany brought out a somewhat different type of color film known as Agfacolor. Ansco, which at that time was the Agfa subsidiary in this country, later developed the process here as Ansco Color which became the first subtractive color material that could be processed by the user. (Additive color processes based upon lenticular and screen principles and which called for processing by the user had been around for many years.)

It was all very well for people with miniature cameras to be able to make color transparencies, but what would they do with them when they had them? Many people would want prints to put in albums or pass out to their friends. Attempts were therefore made to develop printing processes and services, the first of which was Kodak Minicolor. This manufacturer's color print service was based on the Kodachrome process and the name of the product was eventually changed to Kodachrome prints. Ansco later produced a print material for consumer processing known as Printon based on the Ansco Color film principle. This opened a new industry of commercial color finishing by independent laboratories which spread throughout the country.

The 35-mm color transparency actually produced a great impact in a number of ways. Kodak developed the idea of the Kodaslide Readymount—the cardboard

Variable-contrast printing paper, Varigam, was launched here by Defender company in 1940—now made by Du Pont.

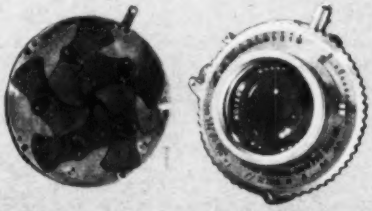
mount in which color transparencies are now returned to the photographer. Associated with the Readymount was the development of various 35-mm slide projectors and magnifying slide viewers. These factors, along with the introduction of relatively inexpensive 35-mm cameras having many of the features of the earlier deluxe models, greatly enhanced interest in miniature camera work and contributed much to the booming activity in color photography today.

There was still another color printing process which was being developed in the middle thirties known as the Wash-Off Relief Process—an imbition color printing process which later developed into the Kodak Dye Transfer process. Wash-Off Relief was used for a time in a service providing enlarged color prints from 35-mm color transparencies, but its principal use was among a group of fastidious amateur color workers, many of whom eventually turned to professional color photography.

While all this was going on, the commercial advertising illustrators had been developing a high degree of skill in the production of color prints, principally by the historic trichrome Carbro process. The original three-color separation negatives were exposed simultaneously in one-shot color cameras and then turned over to the laboratory for the long series of processing steps that led to the final print. Later on, as professional sheet film color transparencies caught on, many commercial studios began to discard their one-shot color separation cameras. Commercial color prints today are being prepared by the Carbro and Dye Transfer processes from separations made in the laboratory from color transparencies, and in some cases from color negatives. Today, a number of leading commercial studios and publishing enterprises are using color prints prepared by the Kodak Flexichrome process, a semi- (*Continued on page* 230)

Incident-light method of exposure determination gained wide following with development of Norwood Director meter.

Speed Midget flash lamp introduced by G.E. in 1941, has 1/150 sec. flash duration, can stop moderate action.



Centrally-pivoting blades moving in one direction give Kodak "800" shutter top speed of 1/800 second, unprecedented in front shutters.

By SUZANNE SZASZ

Want to be a FREE LANCE?

Here's the lowdown from a courageous gal who made the grade in four tough years

Photograph by Walter Steinhart

Blonde, Hungarian-born Suzanne Szasz first won recognition by a national magazine in 1947 when PHOTOGRAPHY *(then* POPULAR PHOTOGRAPHY*) introduced her as a gifted newcomer to the American scene. Since then she has come far both in her career and in developing a delightfully candid touch; today her work appears in many top publications. As anyone can tell from looking at Suzanne's pictures, she loves children and takes great pleasure in using a camera. This enthusiasm is one reason why she succeeded in a field where the competition is ferocious and the odds are stacked against the beginner. Just what it takes is told here by Suzanne as she looks back over her first four years as a professional. The story of her struggle contains sympathetic understanding, sound advice, and practical inspiration for anyone with hopes of a free-lance career.*

These two portraits by Suzanne measure her growth as a candid photographer. Compare technically good but obviously posed studio shot, left, with natural charm of little girl playing, right. Suzanne says, "I took that first picture four years ago. I was much too anxious to make it exactly right . . . plain background . . . even lighting . . . perfect focus . . . big smile. The result is forced and artificial, I think. Now I'm much more relaxed about these details. I just go into the child's room, replace a few light bulbs with floodlamps, and then shoot as I please. For the second picture I used a No. 2 Photoflood plus a white cloth to fill in shadows."

HAVE YOU EVER dreamed about becoming a free lance and making photography your way of life? I did, many times. And when four years ago I found it necessary to earn my own living, that dream was strong enough to make me turn down steady jobs in other fields for which I was better qualified. Even though I'd been nothing but a mediocre amateur until then, I borrowed $700 from some friends of my family and hopefully cast off as a free-lance photographer.

It was a foolhardy gamble, I suppose, and since then I've had a reasonable share of struggle, disappointment, and failure. But I've never regretted that choice. Perhaps you have made a like decision, or will make one some day. It's to you I'm writing in hopes that my experiences during the past four years will help you along your way.

Let's be quite frank, right from the start. Don't begin a free-lance career unless you've got a tight grip on your lucky star. I was fortunate: at the end of my first year I won a $2,000 prize for a *Ladies Home Journal* cover—a break which kept me in bread and film for a long time. Luck aside, you must be willing to work terribly hard. A forty-hour week is unheard of for most free-lance photographers: I don't think my hours are particularly unusual, yet what I call a day often starts at 8 A.M. and ends around 11 or 12 P.M.

Shy little boy who found new friends at summer camp was subject of fine picture story shot by Suzanne during six weeks she spent as counsellor. Her sensitive pictures of his growth from first uncertainty, left, to later adjustment, right, sold for total of $1,200. Only expense: film and paper. Equipment: one Rolleiflex and two floodlamps. Suzanne says, "As a result of that summer I came to know children better than ever before, had the opportunity to develop my story sense and ability to shoot unnoticed." Story sold to *Woman's Home Companion*.

In all four years I can remember only one span of two weeks when I stopped photographing and took a carefree, camera-free vacation. But hard work won't scare you if you really love photography—and you'd better have a passion for making pictures or you won't last long in the free-lance grind.

I began as a dollar-an-hour assistant to a photographer who made children's portraits. One advantage to this job was a well-equipped darkroom which I was allowed to use for my own projects. I got into the habit of talking to mothers about the problems and pranks of their children, then began using the kids in little sequences I thought up or observed. After building up a collection of these simple picture stories I picked some of the best ones and showed them to magazine editors.

I was a little frightened before this first tour, but things turned out very well. Although I didn't sell much (I really hadn't expected to) I did make some valuable contacts and good friends. One editor told me much later: "You seemed so delighted with photography and so sure of yourself that I thought you actually must be a better photographer than your work showed at the time."

After you've once made the rounds and met the picture editors I don't think you should insist on seeing each personally the next time you have something to show. Just leave your prints with his secretary or assistant so the editor can look them over when he's not too busy.

I'm glad I was cowardly enough in the beginning to refuse offers from well-meaning friends who wanted to make appointments for me at top-ranking magazines with standards of quality I hadn't even approached at the time. It's important to be able to judge for yourself whether you have something to interest a certain publication. And of course you should display only your very best work: wasting editors' time is a sure way to make yourself unpopular.

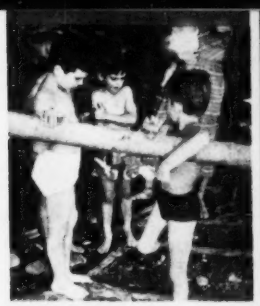
Like most beginners who feel the need for help, I wanted an agent—but I never found one who saw

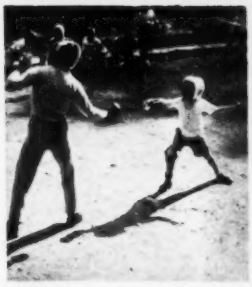
That candid quality, so evident in Suzanne's work today, looks easy but comes hard. She developed her skill by covering such varied subjects as architects' final exam at Columbia (sold to *Life*), above, and mother's day with her new baby, left. "They all taught me something new about photography," says Suzanne.

enough possibilities in my work to take me on. Looking back, I'm convinced this was a good thing. Working without an agent offers enormous advantages, at least for the beginner: editors will come to know you, not only your work; and you will come to know them personally, not merely from what your agent tells you. And above all, you'll have a better chance to avoid photographing only what's salable and find freedom to concentrate on the stories that really interest and excite you.

For instance, I'm sure no agent would have welcomed the way I spent a summer three years ago—as counsellor at a children's camp. I was gambling six weeks of my time on the chance of finding a good story. Well, I was lucky. The results of this summer—which at worst would have been a pleasant vacation away from the hot city—were four picture stories and two single photographs sold to the *Woman's Home Companion* and other magazines for a total of more than $1,200. And remember: no agent's fee, no expenses besides film and paper.

But there were other, (*Continued on page* 237)





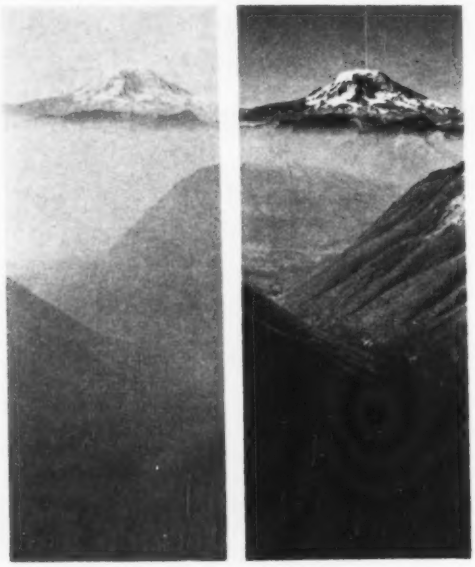
All photographs on this page by courtesy of *Look*

What do magazines buy? Warm, human picture stories told in straightforward fashion, says Suzanne. Probably her most outstanding photographic report to date is *David Becomes One of the Boys*, selections from which are reproduced here. Suzanne writes, "This is the story of David Elwell, 9-year-old boy who recently lost a leg in an accident. These pictures show how he got along with other children at Camp Pocono, Pa., last summer. After the first difficult two weeks he became just another camper—and very good at most things, too. It was a well-adjusted, happy boy who said goodby." Her picture story sold to *Look* and won a Missouri School of Journalism award in 1951.

With INFRARED

IT'S A DIFFERENT WORLD

Mt. Adams seen by visible light, left, and invisible infrared.



Explore this strange land of dark skies and white leaves. All you need is a camera, red filter, and this special film

By JOSEF MUENCH, FPSA

Illustrations by the Author

Fantastic science-fiction setting on another planet would probably not surpass this crisp infrared shot of Mountain Valley in Arizona.

THERE is nothing new about infrared photography. It's at least as old as the century. Yet to my notion it has yet to take its rightful place in widening the horizons of pictorial effectiveness.

I have long been interested in making this type of picture, and often wonder why more camera owners do not explore the possibilities it has to offer. Because the invisible infrared rays have the ability to "see" differently than does the human eye, they can be used to create exciting pictures of ordinary vistas. In fact, they offer a photographer the means for exploring a new world!

When infrared sheet and roll film became commercially available in the 1930's, many people thought it had just been discovered. Since then its peculiar properties have been used mostly in medical and criminal research, in aerial survey, or for the restoration of old paintings. The pictorial photographer has yet, it seems, to discover its value in portraying striking scenics. Because some of my most successful pictures have been made on this film, I would like to present the case for infrared.

Infrared film is no step-child. It is a legitimate member of the family of photographic materials, although it

INFRARED continued

uses "light" rays outside of our visual field. We generally think of the spectrum as including only those colors visible to the human eye, because we can't see the ultraviolet beyond the visible blue-violet end of the spectrum, or the infrared (beyond the red) at the lower end. But both are being used by the photographer today.

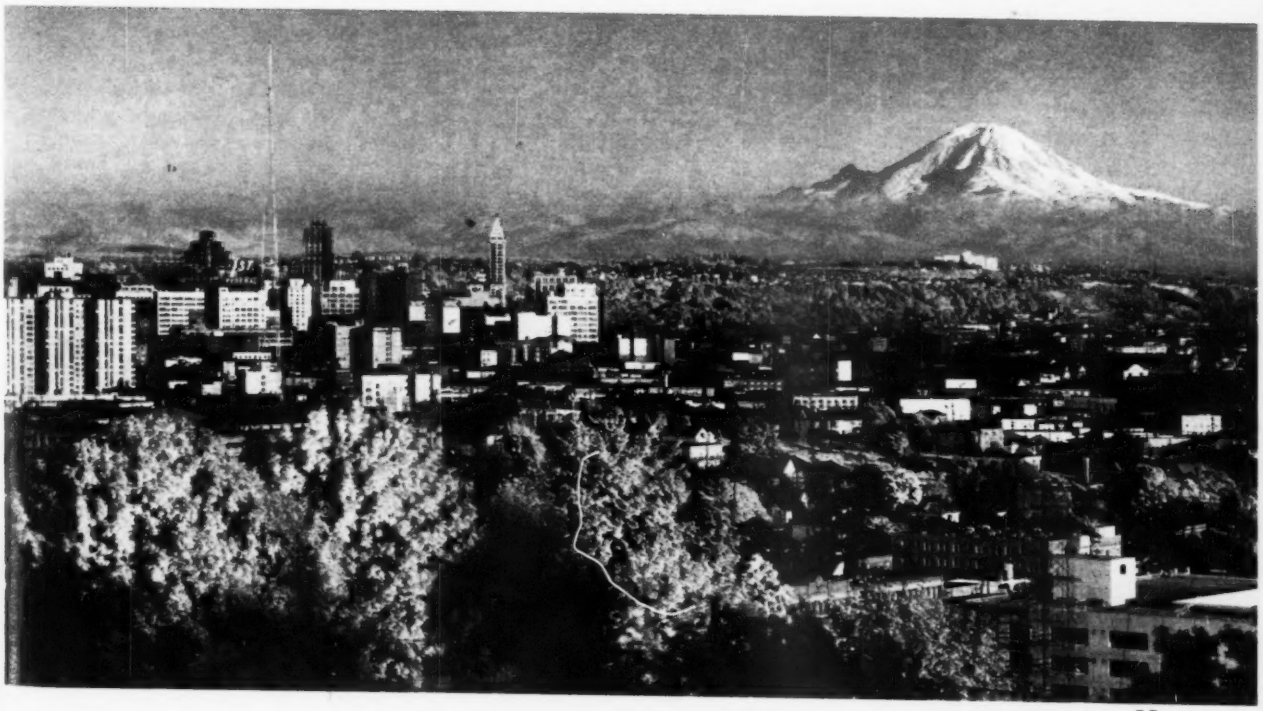
Until the 1900's, all film available to photographers was blind to most colors, responding only to ultraviolet, violet, blue and blue-green. When commercial use was made of the knowledge that the addition of certain dyes would give us *orthochromatic* film, the camera's vision was enlarged to include green, yellow, and yellow-green. Then came fully *panchromatic* material with an additional sensitivity to orange and red. Infrared is an extension of film sensitivity, using invisible rays still farther down the spectrum. The film is, we might note, blind to yellow and green, but shares the response of other films to ultraviolet, violet, and blue. By the use of a red filter these rays are absorbed so that only the effect of infrared rays (and sometimes a portion of the visible red) will be recorded on the film.

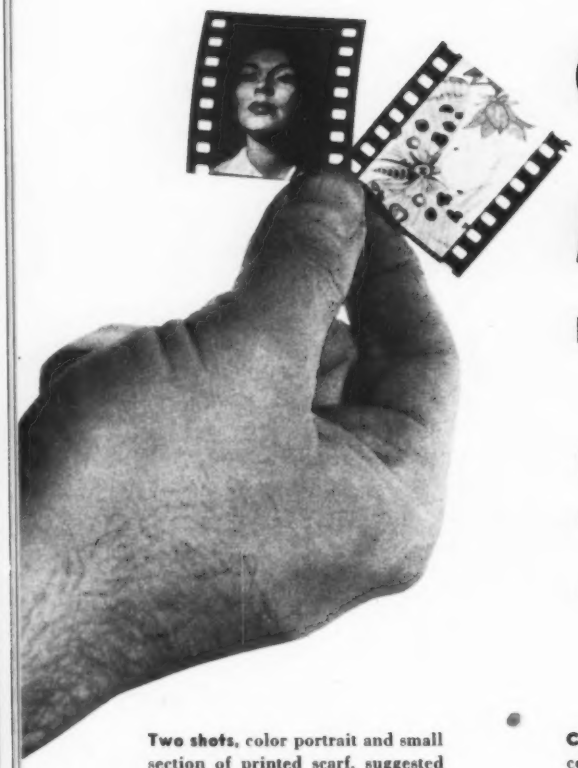
The effects produced are remarkable for strong contrast. Having few infrared rays, the skies become intensely dark and clouds stand out white against them, brilliantly painted. Shadows, which we have not trained our eyes even to note, give them mass and reveal their everchanging forms. Water becomes dark, again in contrast to the landscape which shows an infinitely varied scale of tonal qualities. Sunlit grass and the leaves of deciduous trees turn white, as though snow-covered. In general, the chlorophyl absorbs no infrared but reflects it. But since the invisible infrared rays do not strike uniformly we have gradations of shade, and thousands of tiny shadows build up interest, too. In an open view of a forest, which other films record in one even tone, most conifers are dark but with enough variation to permit an experienced botanist to actually identify particular species of trees.

Haze is no barrier to infrared, which sees right through it, clearing the camera's vision for exciting new distance and bringing far mountain peaks and horizons within its range, way beyond the capacity of the human eye. It demonstrates to the photographer how much haze often is present when he is (*Continued on page* 226)

Striking pictorial quality is achieved with infrared by author, one of the country's leading scenic photographers. Shot of Lost Lake, above, was taken in Oregon's Mt. Hood National Forest through a red filter on finegrain panchromatic film. Compare it with more dramatic rendition which he obtained on infrared film, right.

Unusual effects peculiar to infrared are seen in picture, right, after first studying shot made on panchromatic film, below. Note how absence of atmospheric haze accents buildings of Seattle and Mt. Rainier in the distance. Sunlit deciduous trees are rendered white; the sky, and body of water (extreme right), are darkened.





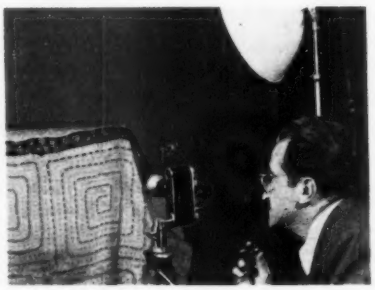
COLOR MONTAGE

FOR THE SLIDE MAKER

The trick of binding two transparencies together provides unlimited possibilities for the imaginative worker

By HARRY HAIMES, APSA

Two shots, color portrait and small section of printed scarf, suggested possible montage so author removed cardboard mounts, combined films to produce "fantasy" above, right.



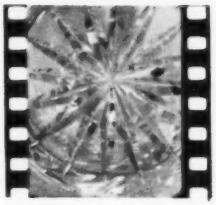
Copying patterns from all sorts of colorful materials to combine with other transparencies is easily done with miniature camera on tripod and illumination from single flood.

HAVE YOU ever had the urge to do creative photography in color, but felt that you were limited by the lack of proper equipment? Perhaps you felt that the beautiful color montages made by the professionals were beyond your reach as an amateur with a miniature camera. Well, you need not feel frustrated because of your limited equipment, for the possibilities of producing excellent color montages with the 35-mm camera are unlimited, and the field is wide open to anyone with imagination and the ability to conceive unusual ideas.

My own experience in developing a technique has been most satisfying, for I found that it is possible to simplify the procedure. Instead of trying to get the results I want by double exposure, I simply mount together two transparencies, and can produce an endless variety of unusual color slides. I recommend that you try this easy method, for you will find that creative work in color will prove to be a fascinating activity which will open up interesting new fields for you to explore.

To make "fantasies in color," as I call them, you will need very little equipment. A 35-mm camera, some tungsten-type color film, and three photofloods in reflectors or reflector-type floods are adequate for making the pictures. As for the slide mounting, only the glass, masks, binding tape, and light box are required.

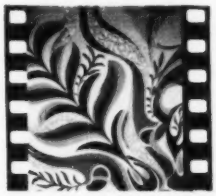
If you have a collection of portraits in color they will prove very helpful. If not, you can start your creative project by shooting some. It would be well to keep in mind the fact that your backgrounds should be fully illuminated and shadows kept to a minimum. These precautions will work to your advantage when you are planning a second transparency to combine with the first picture. Whenever possible, use three lights when you take the portrait—one as a main (*Continued on page* 239)



Unique effect resulted when portrait was bound with shot of a cut glass bowl.

Simplicity keynotes the technique for making these fascinating composites, and their variety is limited only by the photographer's imagination and ingenuity. These were made by the author.

Drapery material provided bold pattern for another striking color abstraction.



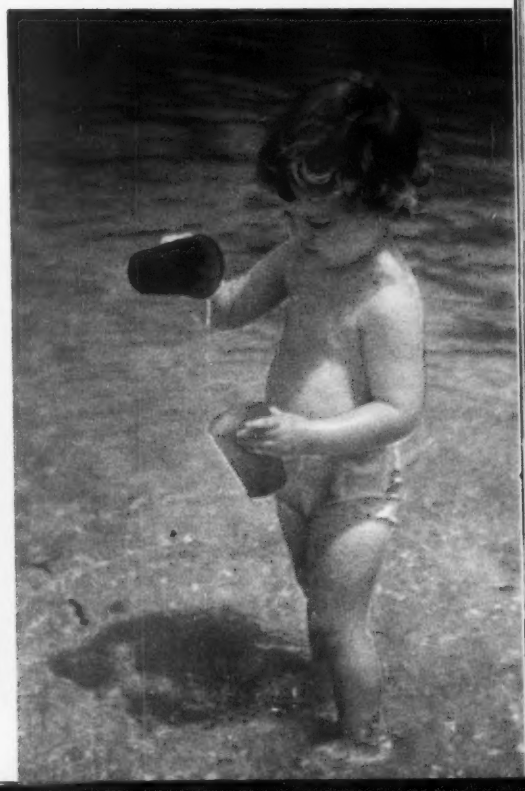
A 15-YEAR MILESTONE

Our readers—masters of color!

FIFTEEN years ago, shortly after Eastman put Kodachrome on the market, our readers were taking their first steps in color photography. A new era had begun. In 1941, Kodacolor roll film was introduced, and in 1944 Ansco Color film was made available to the public, followed two years later by Ektachrome. The amateurs of America were rapidly becoming color photographers. As their numbers increased by leaps and bounds the quality of their work improved steadily. In the belief that amateur color photography had matured and that many amateurs were producing first-rate color pictures, PHOTOGRAPHY *began 1952 with another "first" in the camera magazine field by throwing open the* Pictures from Our Readers *feature to color. The announcement was greeted by an avalanche of mail—over 15,000 transparencies the first month! Our hunch was vindicated as the pictures on these two pages prove. Our readers have become masters of color!*—THE EDITORS.

Cardinal at feeder was photographed by C. H. Lewis of Salem, Va., by solenoid and remote control switch at a distance of 100 feet from the camera. His 35-mm Kine Exakta II was equipped with a 135-mm Zeiss Triotar *f*/4 telephoto lens, and loaded with Kodachrome Daylight type film. Exposure was 1/250 second at *f*/4.

Gerald G. Sheldon of Des Moines, Iowa, photographed this sleeping child and her doll with a Kodak Pony 135 and 51-mm Kodak Anaston *f*/4.5 lens. Exposure, on Kodachrome Daylight Type film, was 1/25 second at *f*/4.5. H. R. Ewert of Hutchinson, Kans., made the picture of a child in water with an 828 Kodak Flash Bantam and 48-mm Kodak Anaston *f*/4.5 lens. Exposure was 1/200 second at *f*/4.5 on Kodachrome Daylight Type film. Rockefeller Center's Prometheus was photographed by Bob Williams of New York City with a 35-mm Contax II and 85-mm Zeiss Sonnar *f*/2 lens. Exposure: 1/50 second at *f*/6.3 on Kodachrome Daylight Type film.



TWO STUDIES IN

In color shot on facing page, fluorescent light gave a blue-green cast with Type B Ektachrome, accenting model's red hair. In both pictures, multiple light sources were used to eliminate most shadows. Note pleasing and effective composition in black-and-white, built entirely with triangles made by back, legs, arm.

A HIGH-KEY PHOTOGRAPH, strictly speaking, is one in which all shadows have been eliminated by the use of many light sources. In the hands of a master, to whom all rules are flexible, the technique lends to a photograph the delicate line of a pen drawing and the subtle modeling of a pastel sketch. Such a master is Erwin Blumenfeld; on these pages are two examples of his use of high-key technique, in color and in black-and-white. There are shadows visible in both pictures; Blumenfeld would not sacrifice the exact result he wanted for the sake of a precise definition.

The color shot reproduced here owes its predominating blue-green tones to an unusual combination of lights and film emul- (*Continued on page* 236)

HIGH KEY

BY ERWIN BLUMENFELD

They do it the world over . . .

In Munich it's

On a field trip to Bavaria's Nymphenburg Castle, agile students focus on a borrowed ballerina

PHOTOGRAPHS BY HANS HUBMANN

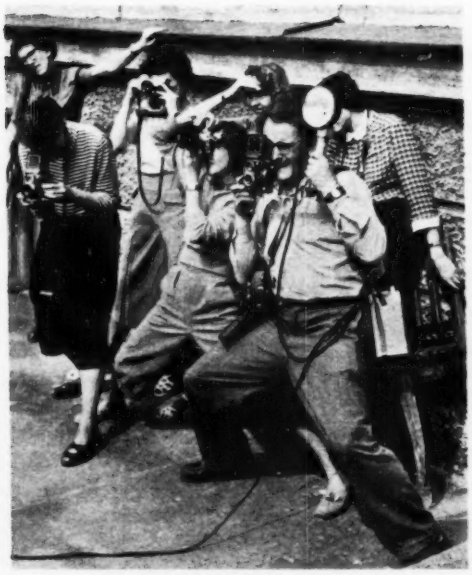
A PHOTOGRAPHIC field trip is a stimulating experience wherever it takes place: getting out in the open, working side by side with fellow-students or club members, attacking new problems raised by fresh and interesting subject matter. Hans Hubmann went along on such a field trip with fourteen students of one of Europe's oldest and most respected schools of photography, an organization with the forbidding name of *Bayerische Staatslehranstalt für Lichtbildwesen,* which means nothing more or less than Bavarian State Institute for the Teaching of Photography.

Background for a big day of shooting was historic Nymphenburg Castle near Munich, and the model who was the cynosure of all lenses was Eva Eross, solo dancer from the Munich State Opera. The pictures on these pages tell their own story.

Eva likened the experience to having fourteen stage-directors at the Opera. But she managed to satisfy such familiar demands as "Smile, but not too much," and "Hold it while I move my tripod!" In short, it was a field trip—and a photographically good time was had by all.—

Ballerina Eva Eross of the Munich State Opera poses for the students. Nymphenburg, in addition to being the site of one of Bavaria's many castles, is famous for fine chinaware, and in these shots the photographers wanted to capture some of the sensitive beauty of a china figurine. They got it, and a delicate bit of cheesecake in the bargain.

"Lichtbildwesen"

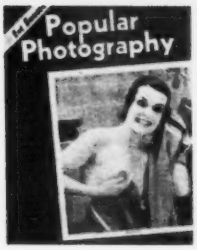


Princess on A Stairway was theme of the day's shooting. Above, four women students seat Eva near top of staircase and blaze away. Girl with tripod got shot like that shown below. At left, seven eager photographers back into a corner to get "that elusive angle."

CRYSTAL JUBILEE

PORTFOLIO

A selection of memorable pictures from the past fifteen years. How many of them do you remember?



1st Year

Torkel Korling

In 1937, Korling made this picture, symbolic of the trust and confidence of a child in his father, for an insurance company advertisement. It was much discussed and inspired a long line of imitations, none as effective as the original.

Technical data on the pictures in the Portfolio will be found in *Notes on the Portfolio* elsewhere in this issue.

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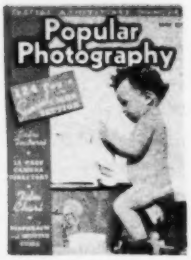
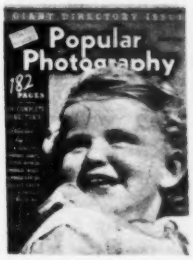


2nd Year

Berenice Abbott

In early winter nightfall, Berenice Abbott caught midtown New York's offices still alight. This picture is from her thorough and impressive series on the city.



3rd Year

Martin Munkacsi

Backlighted stage shots like this were rarewhen Munkacsi caught this acrobatic dancer performing in a Budapest theater. Today's stage photography owes much to such innovations and new ways of seeing.

4th Year

Roy Pinney

In the 1940 POPULAR PHOTOGRAPHY *contest, Roy Pinney's prize for this picture was a big Packard Sedan, which in that year cost $1,056. Much of Pinney's early work appeared in this magazine. He is now an established and successful professional.*

5th Year

F. S. Lincoln

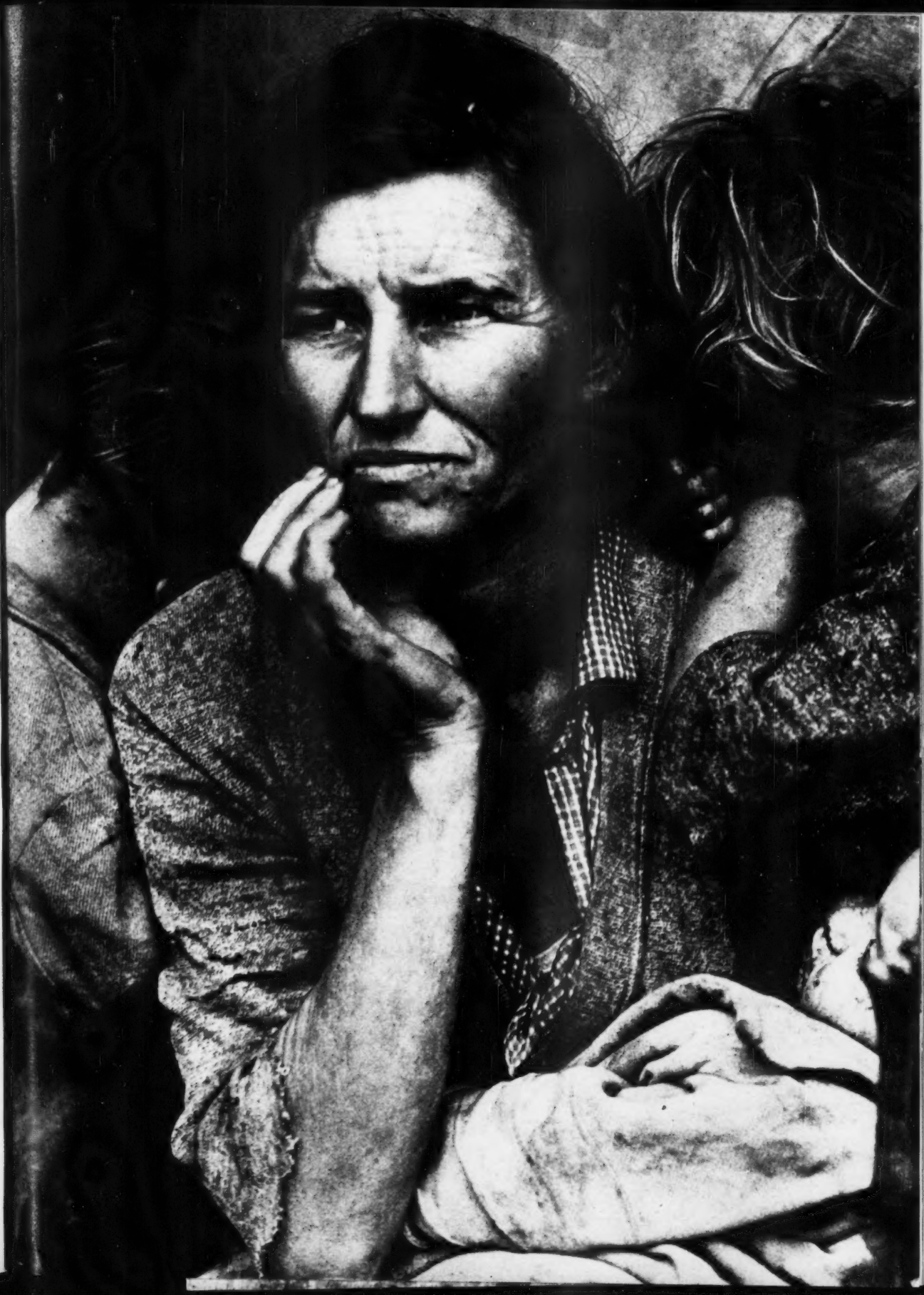
Modern dance has been a fertile field for the creative photographer, who tries to get some of its abstract, stylized quality into the picture itself. This was a new idea when F. S. Lincoln made his evocative shot of dancer Ruth Page.

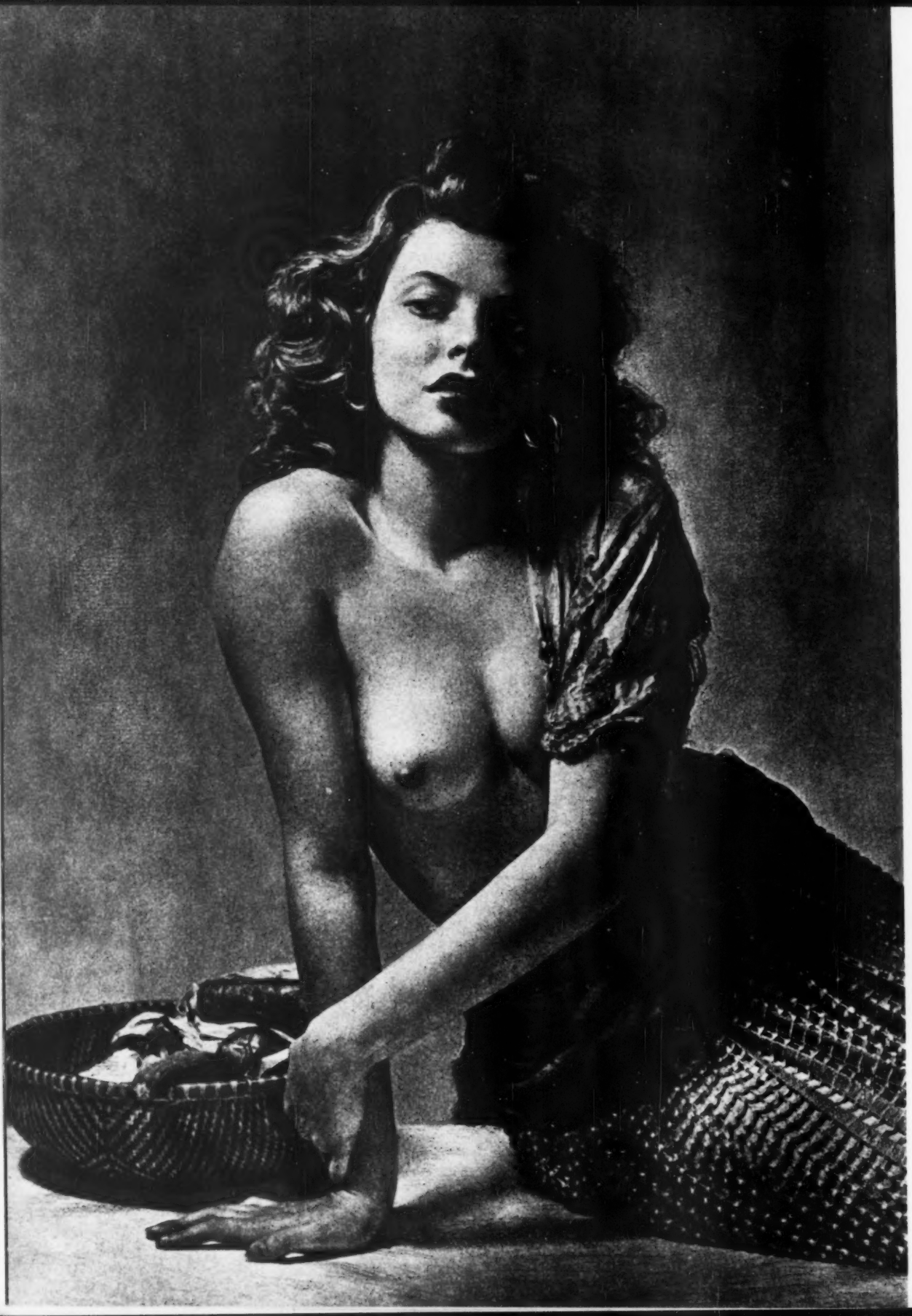
6th Year

Dorothea Lange

Roy Stryker, as director of photography for the Farm Security Administration, for which Miss Lange made this picture, was quick to recognize the value of the camera in documenting the state of the nation. Photographs like this one won Dorothea Lange a Guggenheim Fellowship in 1941 to aid her in her work.

Photograph courtesy Museum of Modern Art





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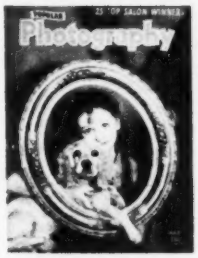


7th Year

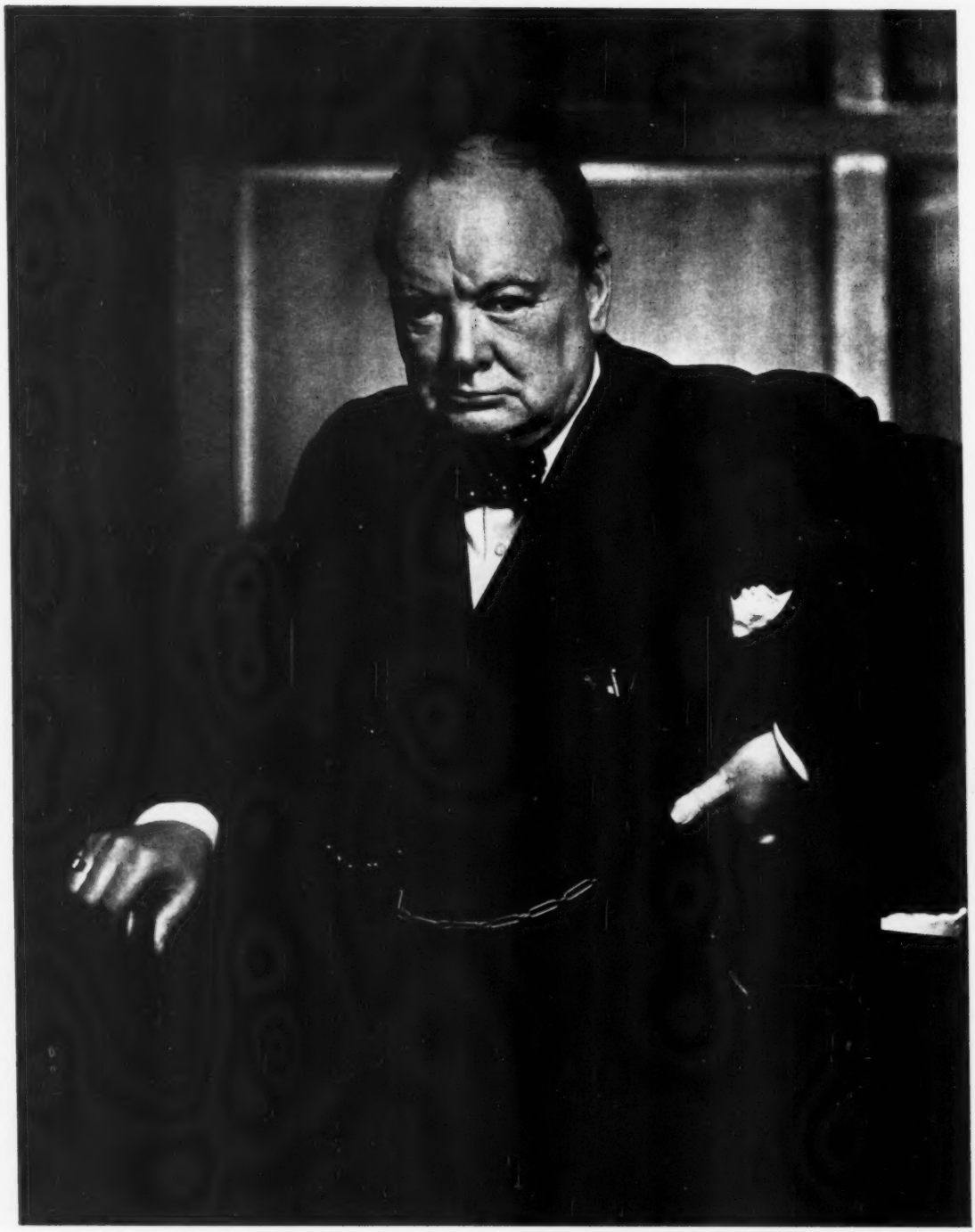
William Mortensen

After we published this picture in October 1943, Mortensen received more than a hundred requests for copies of it, and it got the Air Forces' highest tribute: a bomber in the South Pacific was named after it, Girl of Zaragoza.

8th Year

W. Eugene Smith

We were the only camera magazine to have our own war correspondent in World War II. This picture, made under fire, is typical of coverage that won Smith a reputation as one of the greatest war photographers. He is also famed for magazine picture-stories like Spanish Town *and* Country Doctor.



9th Year

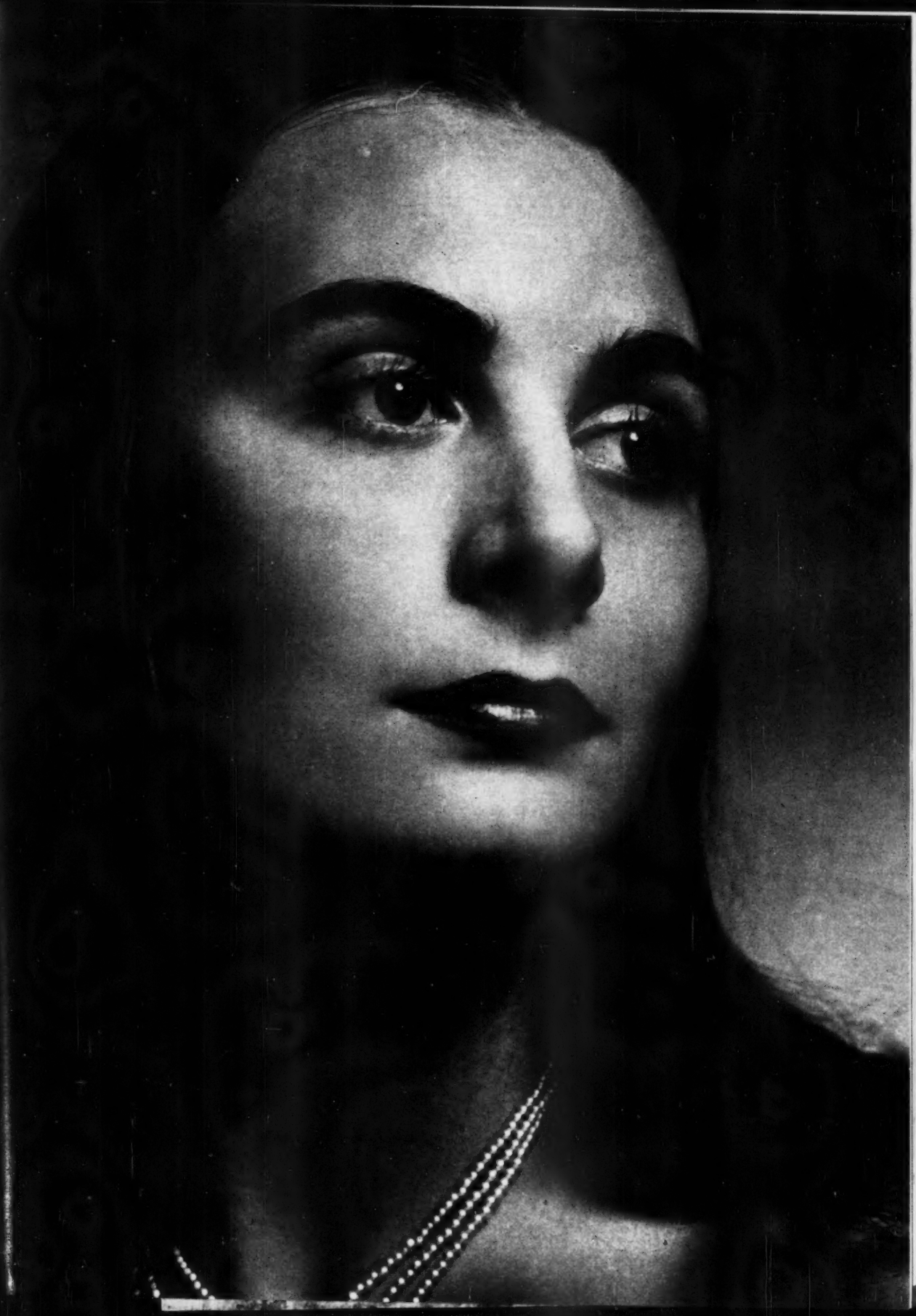
Yousuf Karsh

This photograph, made in December 1941, is the one that started Karsh on his road to fame. He said he got the expression by pulling Churchill's cigar from his mouth just before the exposure.

10th Year

Philippe Halsman

This study of dancer Ricki Soma is among the most successful of a long series of brilliant portraits of women by Halsman. Ricki Soma later became wife of film director John Huston.



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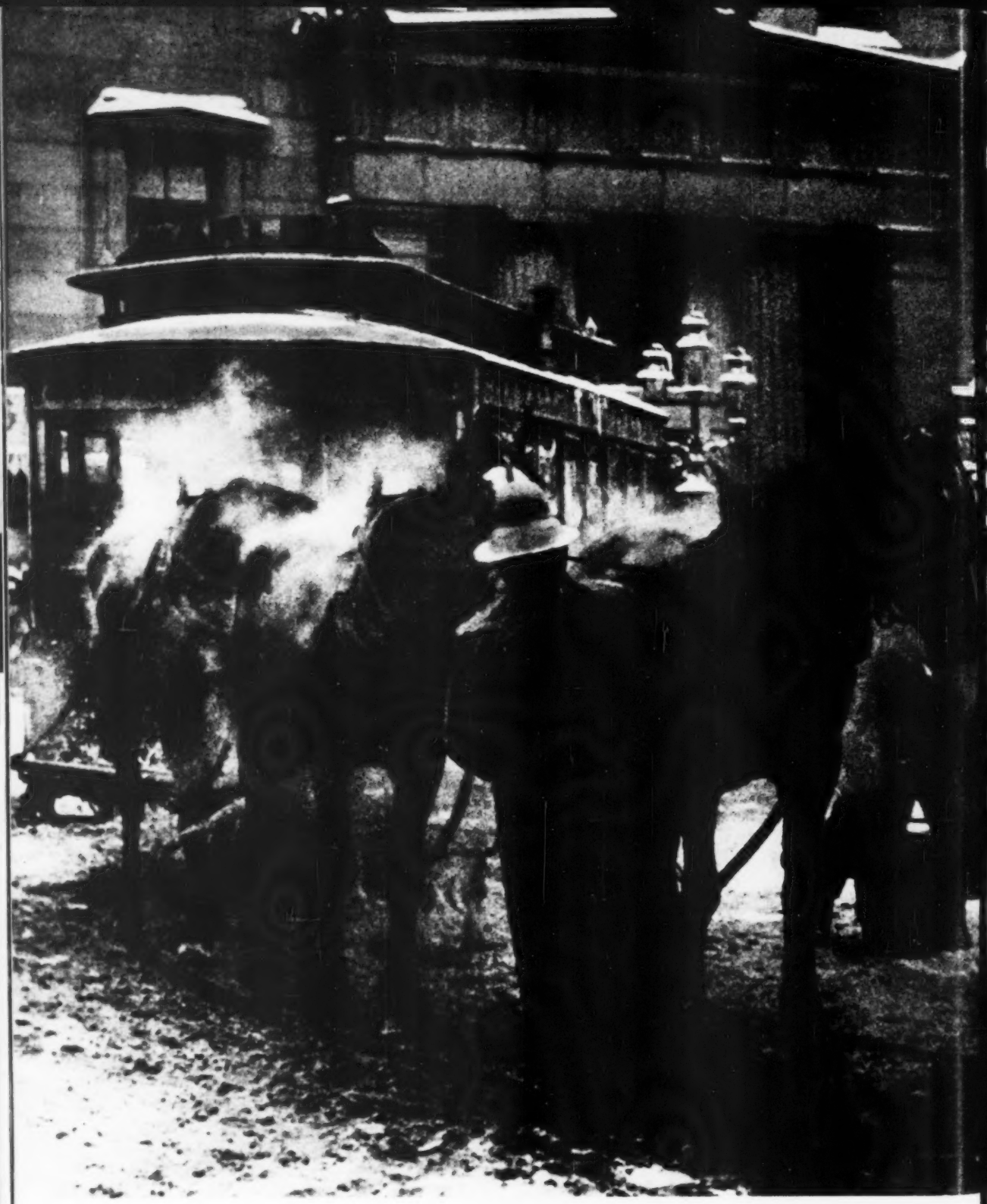
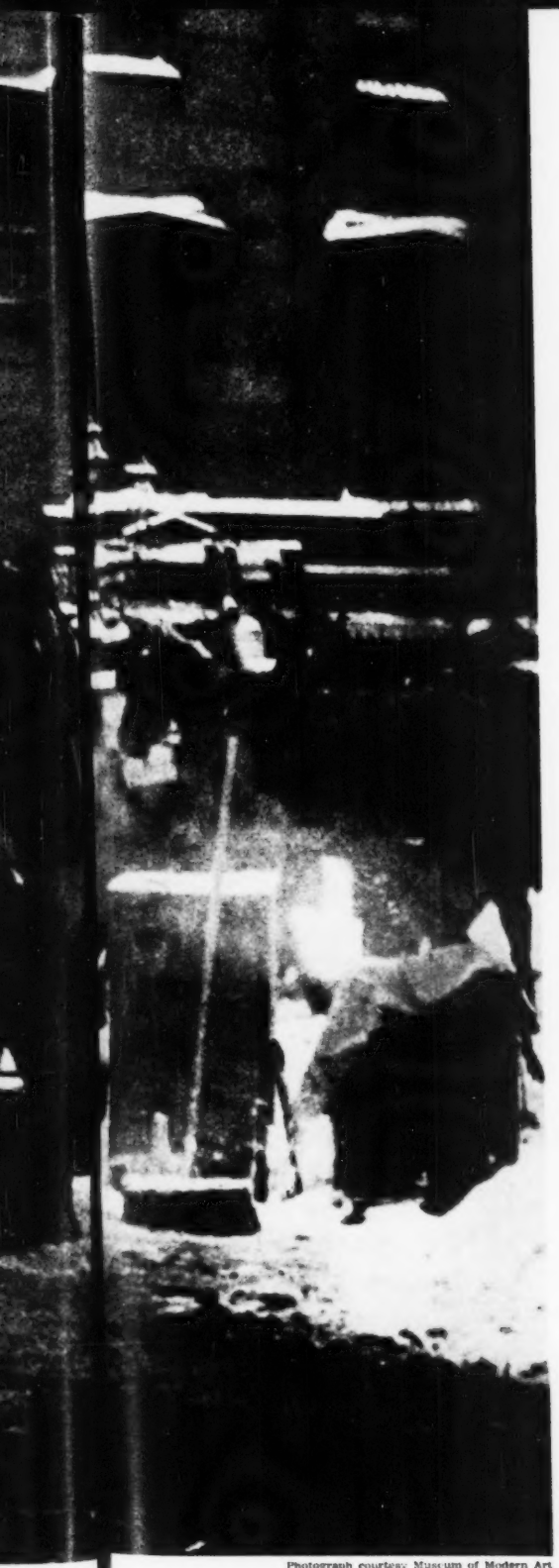
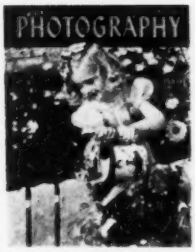




Photograph courtesy Museum of Modern Art



11th Year

Alfred Stieglitz

One of the really great forces in modern photography, Alfred Stieglitz died in 1946, and in July of the following year POPULAR PHOTOGRAPHY *printed a portfolio of pictures based on a memorial exhibition at the Museum of Modern Art in New York. This famous photograph, made in 1892 and called* The Terminal *was one of those reproduced. It has been one of Stieglitz' most popular works.*

12th Year

Tana Hoban

This graceful, sunny picture of a little girl rolling a hoop is the work of Tana Hoban, one of the most original and inventive of America's younger generation of children's photographers.

13th Year

Andreas Feininger

Tireless experimenter and technician of the camera, Feininger has for many years devoted himself to expanding photography's horizons. Here, a wire mesh screen before his lens helped him interpret the unreal quality of Manhattan Bridge at night.

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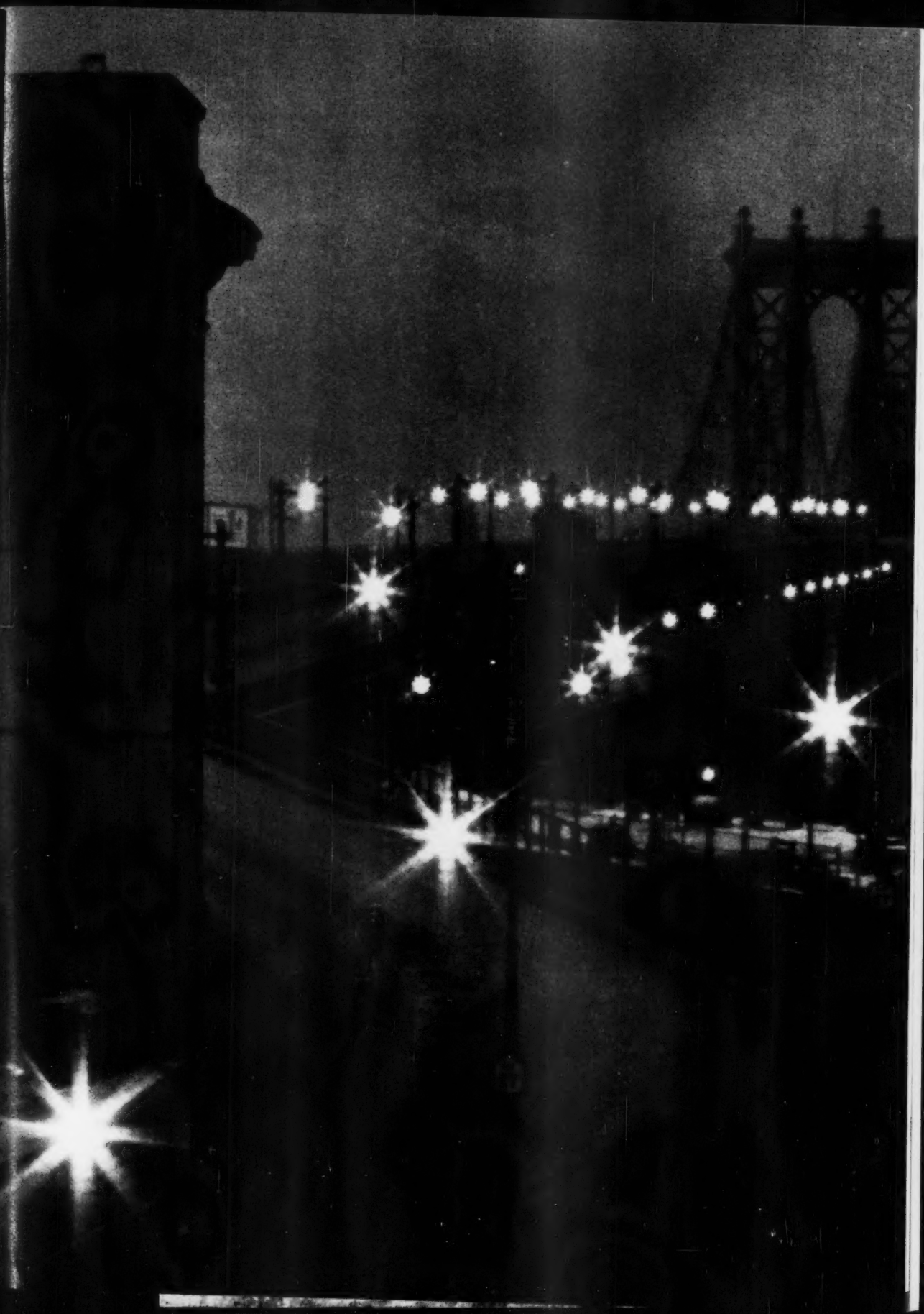

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Courtesy *Life*, © Time, Inc.

14th Year

David Douglas Duncan

Duncan first appeared in Popular Photography *as an amateur in April 1938. Today he ranks as one of America's greatest photo-journalists, and his eloquent book of Korean War photographs,* This Is War, *was acclaimed as high spot of camera reportage in 1950.*

15th Year

Fritz Henle

Wyoming Ranch, *a prize-winner in the color division of our 1951 contest, rates tops with our readers. We've received sheaves of letters asking for copies of it, and it is reproduced here in a gorgeous gatefold, suitable for framing.*

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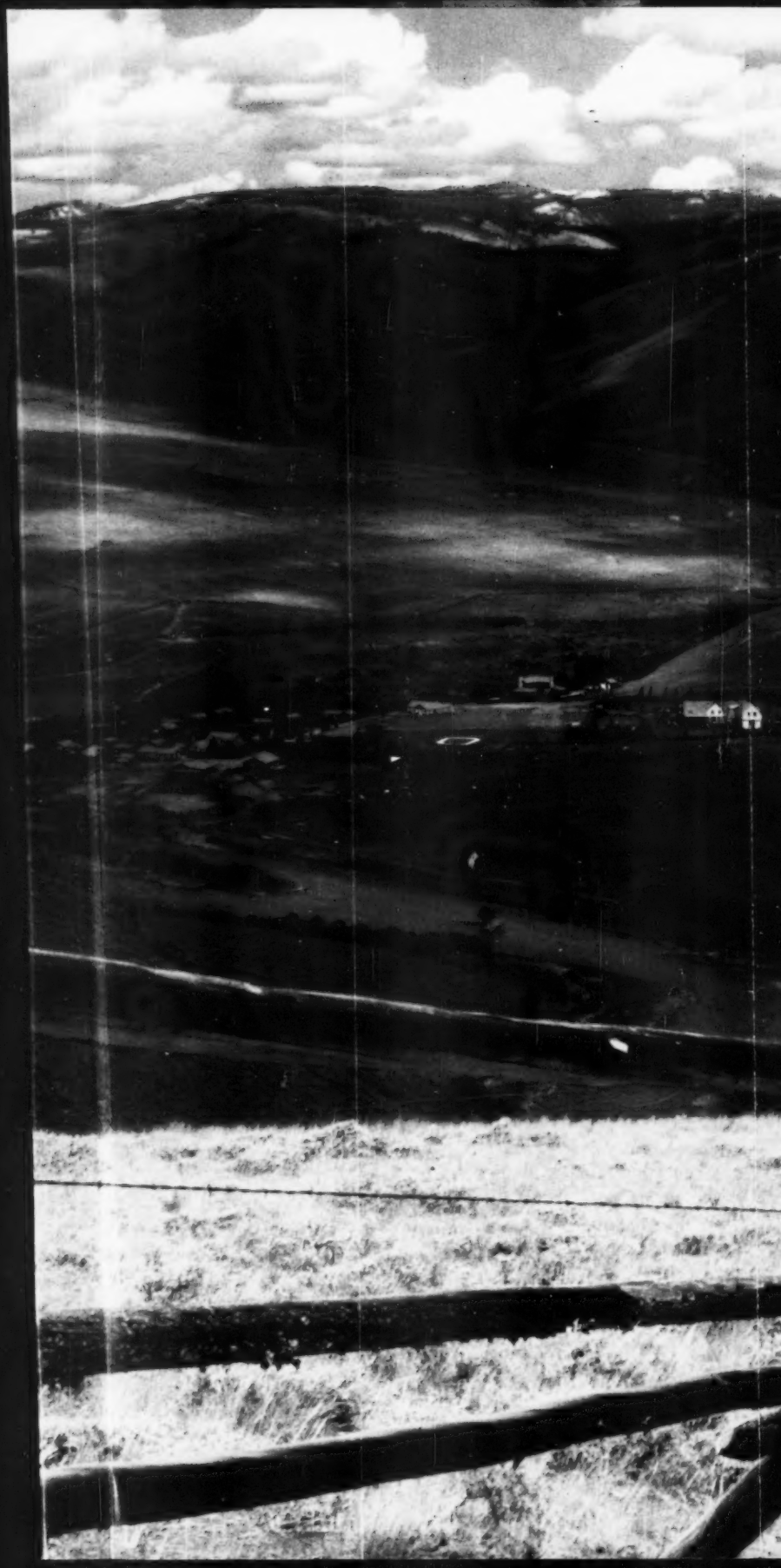

End of the SKI TRAIL

A color photograph by Johnny Florea

THE PIN-UP picture has come into its own again since the re-entry of the GI in the American scene. Pin-up collections are sprouting forth in barracks, quonset huts, and shipboard cabins from Pensacola to Pusan, and photographers who specialize in this glamorous occupation are busy grinding out pictures to fill the demand.

But, there are good pin-ups and bad pin-ups. It takes technical skill and directing ability as well as a pretty girl to make a pin-up picture as successful as this color shot by *Collier's* staff photographer Johnny Florea of cinema starlet Marilyn Monroe. It's one of the most delightful examples of the art we've seen in a long time, and accordingly we reproduced the original 4x5 Type B Ektachrome transparency in extra large size.

Miss Monroe seems to be warming up after a day on the ski slopes, but to be perfectly honest, it's just an illusion. Actually the picture was shot in a Southern California home where the closest available sport was not skiing, but swimming in a nearby pool.

Florea used a 4x5 Linhof fitted with a $C^1/_2$ Series Six color filter to balance the light from five No. 22 flashbulbs—three about ten feet to the left of Marilyn as mainlights and two approximately twelve feet in front of her for shadow fill-in. The Linhof's 150-mm Schneider lens was stopped down to between $f/11$ and $f/16$.

How come the blast of light from the flashbulbs didn't blot out the fireplace flames? Open flash is the answer: a short exposure before and after the bulbs were fired gave the flames a chance to register. Look closely and you'll see how the fire shines through Marilyn's apparently transparent hand—an effect caused by her moving slightly during the exposure.—

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CRYSTAL JUBILEE CITATIONS

1937—1952

In reviewing the extraordinary accomplishments in photography during the last fifteen years, the Editors of PHOTOGRAPHY *wish to extend their gratitude to the entire photographic industry as well as to the institutions whose use of the art has given it stature and dignity. On this anniversary occasion it is fitting for us to extend special greetings and recognition to those individuals, concerns, and enterprises whose original contributions seem to have had the most conspicuous effect on photography's progress.*

PHOTOGRAPHY MAGAZINE SALUTES:

ANSCO, *for providing in Ansco Color film the first subtractive color transparency material that could be processed by the amateur in his own darkroom or kitchen.*

EASTMAN KODAK COMPANY, *for the research and development that have resulted in putting color photography within the reach of the millions*

DR. HAROLD E. EDGERTON, *of the Massachusetts Institute of Technology, for the development of electronic (high speed) flash, photography's newest lighting tool.*

GENERAL ELECTRIC CO., *for developing the first midget flashbulb which simplified flash photography and greatly increased its popularity*

LIFE MAGAZINE, *for its contribution to photographic journalism and for the influence it has exercised in developing the picture consciousness of the American people*

DR. EDWIN H. LAND, *President of Polaroid Corp., for the invention of the Polaroid Camera which embodies the most revolutionary principle to have appeared in photography in the last 15 years*

DR. ROWLAND S. POTTER, *for his development of Du Pont Varigam, the first successful variable contrast printing paper*

CAPT. EDWARD STEICHEN, *whose work as Director of Photography at the Museum of Modern Art, has been one of the most progressive influences in American photography*

THE FRED WARING SHOW, *and especially Al De Caprio, its young Television Director, who is responsible for the consistently superior camera work that makes this CBS Sunday night show one of the finest, visually, on TV.*

DAVID WHITE CO., *for the Stereo-Realist camera and accessories, which were largely responsible for the current revival of stereo photography*

photo tips

Traveling Safelight Lamp

A traveling photographer who wants a handy safelight can make one by taping a round safelight filter to the end of a flashlight; this makes a good tool for handling film in an improvised darkroom. Circular filters designed for the end position in small safelights measure about 2½ inches in diameter. Ordinary adhesive tape or painters' masking tape may be used in binding the filter to the flashlight. Of course, use the right filter for the film.—*Walter E. Burton, Akron, Ohio.*

Cable Release Grip

It's awkward to lose your grip on a cable release just when you're about to make an exposure. You could miss the one picture you were trying to get. To prevent this, get a rubber grommet for a penny or two from a hardware store or radio repair shop, and slip it over the shoulder of the cable release, where it will make a tight fit. Then, even if you should be wearing heavy gloves, you'll have full control of the plunger at all times.—*Ken Murray, Colon, Mich.*

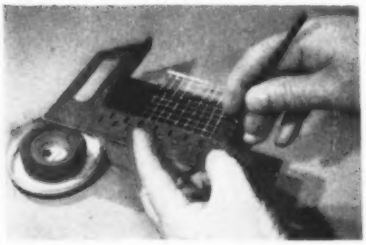
Keep Changing Bag Light-Tight

A changing bag can be a useful photographic accessory, but not unless it's perfectly light-tight. After continued use the elastic bands on the sleeves are apt to stretch, permitting light to enter and fog film. As a safety measure it is a good idea to slip a large rubber band around the sleeves at the wrists, as shown, which will prevent any trouble at these sometimes vulnerable points. Also, always check the cloth for leaks.—*John J. Rea, Urbana, Ill.*

Drying Plastic Tank Reels

It's difficult to reload plastic processing tank reels when they're wet, and sometimes it's just as difficult to dry them properly for immediate re-use. Even a few wet spots will cause the film to stick, and if forced the film will buckle. A cellulose sponge, if properly prepared, will dry the reel in a matter of seconds. With a razor blade carefully shred the bottom edge of the sponge to a depth of ¼ inch, then press this edge into the grooves.—*H. Klein, Pittsburgh, Penn.*

Projection Diffusing Screen



You can convert a two or three-inch square of glass into an efficient diffuser for use in enlarging. Place the glass flat on a smooth surface and with a glass cutter scribe parallel lines about ⅛ inch apart into the glass. Then turn the glass over and scribe a similar number of parallel lines on the other side, only this time make them at right angles to the first set. Bind the edges with masking tape, and use it by holding under the enlarging lens.—*Kay Bronaldo, Sturgis, Mich.*

Using Makeup

Did you know that good makeup can make the difference between top-quality home portraits and those that are only acceptable? Properly applied, makeup really can improve your photographs. For example, the eyes of your subject are very important, and a quarter-inch line made with eyebrow pencil at the outer corners will increase their apparent size. A little mascara applied to the tips of the upper lashes will greatly improve your subject's looks.

If your subject's nose is broad, use darker pancake makeup and powder on the sides. If the nose is longer than average, use this darker base and powder around the lower part of the nose near the nostrils.

Lastly, use lipstick to correct the mouth which either is too full or too thin. Apply the lipstick slightly outside the natural lipline on thin lips, and just inside it on full lips thus achieving a more average appearance.—*G. Ward, New York City.*

Cooling Solutions Quickly

One day I had to process several dozen sheets of film in a hard rubber tank. The temperatures of the solutions was very high, and I had to reduce them in a hurry. I had saved the moisture-proof bags from the packages of film; I loaded one of the bags with ice cubes and allowed the bag to float in the tank of developer. When I was finished with the developer, I washed the bag and placed it in the hypo. The temperatures of the chemicals dropped very quickly, and the solutions were not diluted by the melting ice.—*Francis Donadio, Rochester, N. Y.*

Interchange Movie Rollfilm

Many movie makers having roll-type movie cameras have at some time wanted to switch from one type of film to another, although the roll in the camera was only partially exposed. This can be done with little loss of footage, and in broad daylight.

First make a note of the exact reading on the footage indicator. Mark the reading on a film can. Then *cover the lens tightly*, and run off the rest of the film in the camera. After the run, open the camera, switch the spools, rethread the film onto the new take-up spool, and close the camera. *With the lens still covered*, rerun the entire roll of film. After the rerun, unload the camera and put the roll of partially exposed film in the can with the footage marking. You now can reload the camera with the second emulsion. If you wish to repeat the operation with the second roll, follow the same steps.

In using a roll partially exposed in this manner, load the camera normally, *cover the lens*, and run the film to the exact previous footage reading; then uncover the lens and expose the remainder of the film as though no switch ever had been made. This trick will allow you to interchange color film with black-and-white, or B-W films with each other.—*Carter Robertson, Chicago, Ill.*

COLOR IS A CHALLENGE

The Kodak BULLETIN

These Kodak Accessories can help you make the most of every color shot . . . indoors or out . . . day or night.

FOR SHARPER PICTURES. Color often calls for slower shutter speeds, which in turn call for a rigid camera support. The *Kodak Eye-Level Tripod* is easy to carry (only 2 pounds), 3-section legs adjustable from 22½ inches to 5 feet. $20. Another way to sharper, clearer pictures is the *Kodak Metal Cable Release No. 5* . . . eliminates much camera jar. Stainless steel wire covering, protected tip. Fits most shutters. 7-inch size, $1.05; 12-inch size, $1.30.

FOR DRAMATIC COLOR. Dramatic cloud backgrounds in the heavens can be emphasized with a *Kodak Pola-Screen* . . . without materially changing other tonal values or colors. Also helps to control reflections. Its handy companion, the *Kodak Pola-Screen Viewer*, shows you how the Pola-Screen on your lens is affecting the scene. Prices: Pola-Screen, Series IV, $6.75; Series V, $7.80; Series VI, $8.80. Pola-Screen Viewer, $6.75.

FOR SATISFYING CLOSE-UPS. Big, dramatic close-up pictures of flowers, insects, people . . . a whole new world to explore with a camera . . . are yours with a set of *Kodak Portra Lenses*. Prices: 1+, 2+, 3+, Series V, $2.91 each. Series VI, $3.46 each.

FOR SPECIAL SITUATIONS. To avoid excessive bluishness when color film is exposed under open shade or overcast conditions, a *Kodak Skylight Filter* will help. Another handy filter is the *Kodak Daylight Filter* for Kodak Type A color films. Suppose you have Type A (indoor) Kodachrome Film in your camera when the outdoors calls. With this filter you can move right out into the sunshine and shoot—without changing films. Prices: Series IV, $1.65; Series V, $1.75; Series VI, $2.07. Portra Lenses and Kodak Filters are easily attached to your camera with Kodak Combination Lens Attachments.

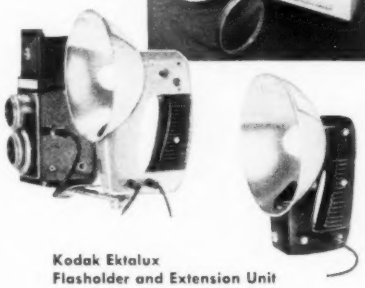
FOR NIGHT COLOR. For dramatic night-time pictures of wildlife, of a group around a beach fire . . . or to improve the lighting effects of your daytime pictures . . . you will want to use flash. Here's where the great new *Kodak Ektalux Flasholder* comes "into the picture." With a special grip for easy hand-holding, the high-energy, battery-condenser-type Ektalux shoots one lamp at a time . . . or up to seven with extension units. Extension units fit tripods, stand on flat surfaces, accept clamps for attaching to chairs or other objects. Adaptable to most flash cameras and picture-taking situations, the Ektalux is professional equipment at prices beginning at $29.75. Extension units, $12.40 each.

Kodak Eye-Level Tripod

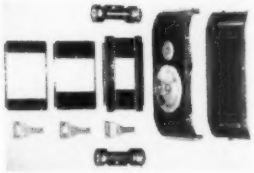
Kodak Pola-Screen and Viewer

Kodak Portra Lenses

Kodak Skylight Filter



Kodak Ektalux Flasholder and Extension Unit



Kodak Tourist Adapter Back

Kodak Color Handbook

Kodaslide Table Viewer

FOR GREATER SCOPE. If you own one of the Kodak Tourist *f*/4.5 Cameras, or a Tourist I *f*/6.3, add Kodachrome to your color repertoire with the *Kodak Tourist Adapter Kit*. You can then use Kodachrome (and also Kodacolor and black-and-white) in the 828 size, plus having three other negative sizes, 2¼ x 3¼, 1⅝ x 2¼, and 2¼ x 2¼. Complete kit with handy pouch costs only $13.25. If you own a Kodak Reflex Camera, its handy $4.59 *Adapter Kit* lets you use No. 828 Kodachrome, Kodacolor, and black-and-white also.

FOR EXACT GUIDANCE. The *Kodak Color Handbook* gives the complete story on color picture taking, with detailed information on all Kodak Color Films and how to use them best. $4. An indispensable pocket companion is the *Kodak Master Photoguide*. Wallet-size, it has all the essential information you need, including fast-action computers and four contrast-viewing filters. Costs only $1.75.

FOR LONG-TIME ENJOYMENT. This *Kodaslide Table Viewer, 4X* lets you show your slides quickly and easily in a lighted room. Projector and screen are one unit. Three-element, Lumenized Kodak Projection Ektanon Lens, 50mm. *f*/3.5. Focusing knob. AC-DC, 100-120V. $49.50. Carrying case extra. When there is more time for showing your slides, the *Kodaslide Merit Projector* will project them big and sharp, with surprising brilliance. Slide insertion is easy with the Merit's top-slot feed. Has Lumenized 5-inch *f*/3.5 Kodak Projection Ektanon Lens, 150-watt lamp, elevating knob. Costs only $26.10. Case extra.

At your Kodak dealer's.

Prices include Federal Tax where applicable and are subject to change without notice.

EASTMAN KODAK COMPANY

Rochester 4, N. Y.

Kodak
TRADE-MARK

The Kodak BULLETIN

Experts' Choices For Fine Prints

AXEL BAHNSEN
FPSA—FRPS

No. 4 of an informative series . . . how leading exhibitors choose papers to fit their salon aims

AXEL BAHNSEN's "Pattern Motif 283" has appeared in the Toronto, Memphis, Smithsonian Institution, Massachusetts Institute of Technology, Dayton Art Institute, and Muncie, Ind., salons. The subject demanded a cool-to-neutral image tone, and print stock that would retain maximum image texture and image detail. Bahnsen chose sleek, glossy *Kodabromide Paper F;* its pure white stock, glass-smooth surface, and tonal qualities met all requirements.

On paper selection, Axel Bahnsen warns "Not all experiences can be translated on the same paper or surface. The objective realistic experience demands the brilliance and range of tone values that only a glossy paper can give, whereas the more subjective emotional experiences demand a surface appropriate to the mood to be conveyed."

For photoengraving, "Pattern Motif 283" was reprinted on *Kodak Medalist Paper F*—the same white stock, but a slightly warmer image tone.

RELIABLE, high-speed *Kodabromide*—with its ease of manipulation, five evenly spaced printing contrast grades, and five surfaces—has long been the most popular of all enlarging papers. For high production of uniform prints, it is unsurpassed. But where speed plus flexibility of manipulation plus ease of toning is desired, it now has a robust rival in *Kodak Medalist Paper*. With *Medalist*, you can expose fully, develop briefly, and obtain a soft, fully detailed print . . . give a short exposure, and develop fully, for a crisply brilliant print . . . or pick any point in between. Thus, *Medalist's* four flexible-range printing grades yield a continuous range to fit any soft, hard, hard-to-print, or hard-to-dodge negative. And all four grades have the same speed. Carl Mansfield's "Minnow Catching" (to appear full-page later) is from a print on white, high-lustre *Kodak Medalist J*.

KNOW YOUR KODAK PAPERS, FOR KNOWLEDGE SPELLS SUCCESS

These are the papers for fine exhibition enlargements, gift prints, home decoration, and specialized applications—in a range of types to fit your every need:

For fast printing, fine warm-black tones, and great flexibility in manipulation—*Kodak Medalist Paper*.

For rich neutral blacks in a top-speed paper—*Kodabromide*, five evenly spaced grades and four surfaces.

For rich warm blacks in a moderate-speed paper—*Kodak Platino Paper*. Two surface choices; three printing grades.

For widest choice of tint and surface in a low-speed paper of utmost tonal quality and adaptability to toning—brown-black *Kodak Opal Paper*. One printing grade.

For Opal quality with twice the speed of Opal—*Kodak Ektalure Paper G*.

For Opal quality in a special fine-grained surface suited equally to exhibition and reproduction—*Kodak Illustrators' Special*.

For photomurals, *Kodak Mural R*.

For transilluminated prints, *Kodak Opalure Print Film* and *Kodak Translite Paper*.

For extra-fast printing and processing—*Kodak Resisto Rapid N*. It's as fast as Kodabromide; and its special base allows washing and drying in ten minutes.

And for contact prints—*Kodak Azo, Velox, Resisto N*, and others. Each Kodak enlarging paper has a contact-paper counterpart, equivalent in type and quality.

For full details on these fine Kodak papers—tints, surfaces, weights, processing—consult the Data Book on Kodak Papers, and your Kodak dealer.

"Pattern Motif 283," Axel Bahnsen, Yellow Springs, Ohio. Exhibition print on *Kodabromide Paper F* (glossy, pure white stock). Reproduction print on *Kodak Medalist Paper F*. The original prints, of course, possess a quality and tonal range that cannot be fully retained in ink-and halftone on high-speed printing presses. For the basis of Mr. Bahnsen's exhibition choice, see facing page

EASTMAN KODAK COMPANY
Rochester 4, N. Y.

Kodak
TRADE-MARK

Everyone can enjoy personal movies with a

Brownie
Movie Camera
8MM.

So easy to *use*... so easy to *afford*

Remember your *first* snapshot camera? Chances are it was a Brownie, too. It cost little. So did its film. It was so easy to use you never gave it a thought. And it made good pictures—you never had to worry about that, either!

Now there's a new kind of Brownie. It's a far more talented Brownie than the familiar box camera you grew up with—for this 1952 Brownie makes *movies*—*fine* movies—in full color or black-and-white, outdoors or indoors. It has a truly fast, universal focus *f*/2.7 lens. Yet it is so easy, so certain, in use . . . so economical to purchase and to operate . . . it is indisputably the Brownie of the movie camera field. It's the ideal *first* camera for those who have been wanting to add movies to their picture-making pleasure.

Why not buy your Brownie—now—and start your own family movie diary? It will make you 30 to 40 average-length movie scenes on each low-cost roll of 8mm. film. And remember—first film cost is last film cost. Its price includes its processing!

ONLY $43.30

Inc. Fed. Tax—and most Kodak dealers offer easy terms!

Price is subject to change without notice.

Kodak
TRADE-MARK

EASTMAN KODAK COMPANY · Rochester 4, N. Y.

the press

By A. J. Ezickson

New Realm Pictures, an English film company, agreed in court recently to pay damages to Henry Drees, chief cameraman of the *London Evening Standard*, for describing him in a newsreel as "the sleeping press photographer." The film showed him leaning against a bale of straw at an auto race meeting. Drees said no exciting event was in progress and he was resting between races.

* * *

Leroy Ryan, *Boston Post* staffer, must have an honest face. While covering a story in Portland, Maine, recently, Ryan asked a hotel clerk if he could suggest a "light-tight" place to change the film in his holders. "Sure," said the clerk, "right in there," pointing to a money vault virtually lined with tens and twenties.

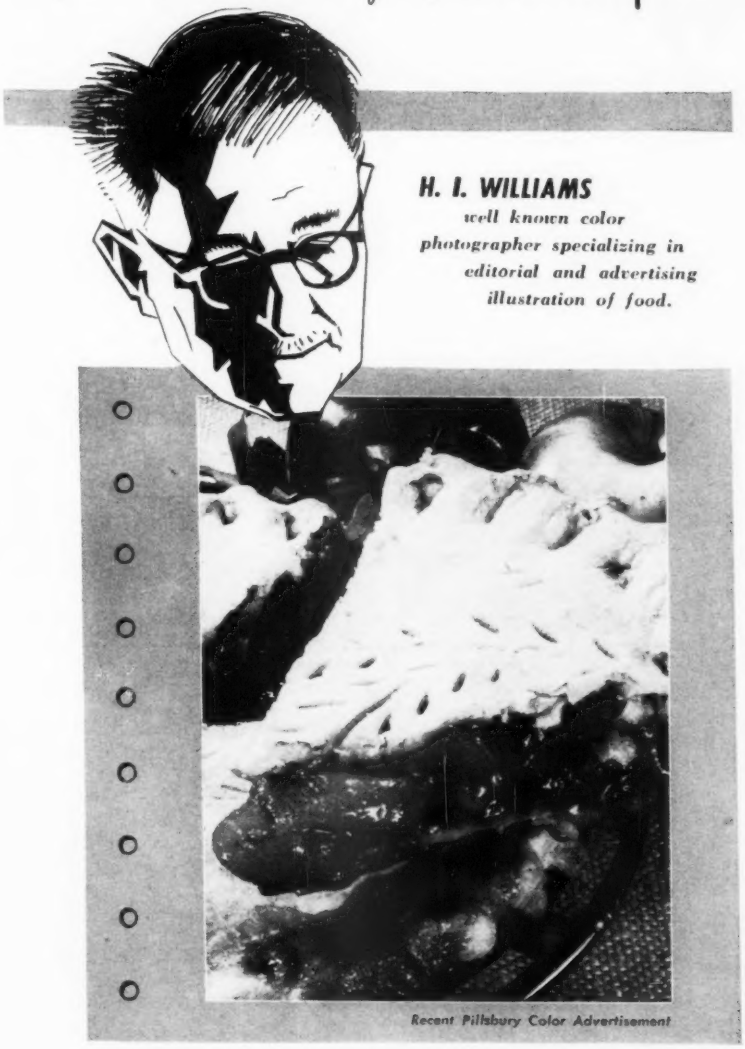
* * *

Mme. Bonnet, wife of the French Ambassador to the U. S., helped a *Washington Post* photographer make the finest portrait ever taken of French Foreign Minister Robert Schuman when the latter was in Washington recently. Schuman was about to leave the French Embassy to pay an official call on Secretary of State Acheson and could spare just five minutes. Charles Del Vecchio, the *Post* staffer, posed the subject, Mme. Bonnet obligingly held the flash extension, and the portrait was finished in less than five minutes. A copy of the portrait now occupies a prominent place in the Embassy's reception room.

* * *

Frank Noel, Pulitzer prize-winning AP press photographer who has been held more than 15 months in a North Korean prison camp, scored a sensational world beat recently when he managed to send out a batch of pictures showing American, British and French prisoners of war in apparent good health and spirits in the Communist No. 5 prisoner of war camp at Fyoktong near the Yalu river. Noel, now 52 and known as "Pappy," was captured by the Reds at the Changjin reservoir Nov. 29, 1950. His dramatic pictures were the product of a chain of prolonged work and negotiations by AP photographers and correspondents covering the Panmunjom armistice talks. AP correspondent Robert Tuckman and AP photographer Robert Schutz first broached the idea of getting pictures from Noel to their opposite numbers on the Communist side, particularly Wilfred Burchett, correspondent for the leftist Paris newspaper *Ce Soir*. With high Communist permission, Burchett undertook to take camera and kit to Noel's camp. One day late in January Burchett handed Schutz five Noel negatives plus six pictures of Noel himself taken by a Chinese photographer. Schutz carried these back to Tokyo where they were passed by American censors and then radioed to the U. S. Subsequent batches of pictures taken by Noel were handled in much the same way.—

famous photographers say...



". . . The use of color photography in magazines is increasing daily. No school I know of offers such comprehensive training in all of the processes of direct color photography. In ten weeks you can learn processing of one shot, view camera and transparency negatives and both die transfer and carbro printing at the Progressive School of Photography in New Haven."

Portrait, Commercial, Direct Color Photography and Camera Repair are offered to beginning students in small classes that permit an unusual amount of personal instruction. For those with previous experience, post-graduate courses in Portrait and Commercial work are available. Nine out of ten graduates of the Progressive School — men and women — are earning their livelihood through photography, many with the assistance of our placement service. Veterans are eligible for G.I. benefits. Dormitory for men, plus housing service. You can start your training anytime — write today for free catalogue PT701

PROGRESSIVE SCHOOL OF PHOTOGRAPHY

NEW HAVEN • CONNECTICUT

amateur movie section

Watch the approach!

By Chuck Anderson

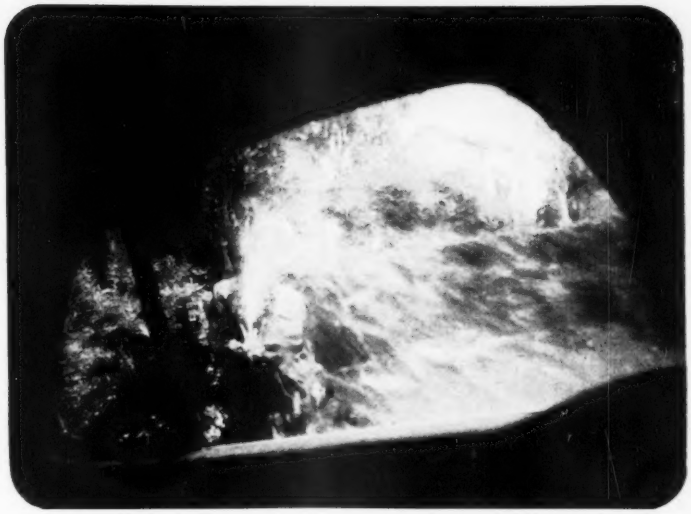
Illustrations by the Author

WHAT a dash of tabasco sauce is to a fine Mexican dish, an *unusual shot* can be to a home movie. A scene that is not expected in the normal course of a picture, and yet doesn't seem out of place, is an excellent device to make any film just a bit more enjoyable. These special shots offer fun in arranging them any way that suits our fancy. They're also a challenge to the ingenuity. If you carefully searched out every possible way to make a shot unusual, you'd probably discover dozens of methods. But a certain few always are good to begin with. Here are some starters:

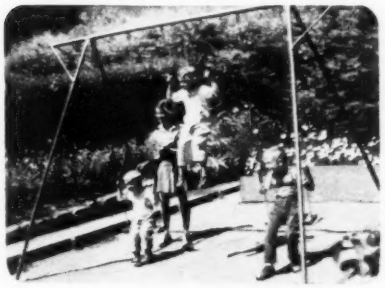
Washing the family car seems like a very prosaic bit of film business and yet, if you use a bit of imagination, you can film an entertaining sequence around that simple activity. We're doing all right if we show a medium shot of mother or dad squirting water from a hose onto the car, then moving to a close-up as our actor applies sponge or cloth to take off the road dirt . . . but better yet, open the scene with the camera placed *inside* the car. Show the person aiming the hose in the general direction of the car, then have him suddenly direct the stream toward the lens. The result, on the screen, can be startling as the big splash of water aims at the viewers. (Of course, we've had the car window closed all the time). But watch your viewers'

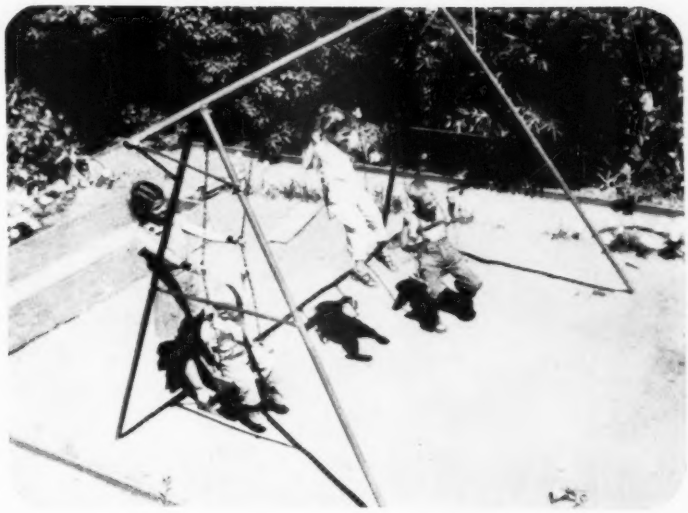
Surprise super close-up, below, gives smash impact to scene of father teaching golf to his son, above. Thus the inclusion of one unusual shot makes the whole sequence more distinctive.

Car washing, above, can be very prosaic until you cut to a startling shot like that at right. As the big swoosh of water hits the glass, you can almost see the audience duck.



Commonplace scene of children on swings, below, gains new appeal as the photographer aims from a high vantage point and catches action from a more interesting angle, right.





tendency to duck when this scene comes along. A variation is to have the water flung at the camera from a bucket. Either way, it's quite a surprise.

While someone cleans a layer of dirt from the old buggy, set camera low and film his actions as reflected in a polished hub cap. Perhaps you'd like to smear some mud on the cap before the shot. Then, as it's washed off, the sparkling though distorted view of your cleaning helpers comes into view.

Have you ever wondered why cars don't always look the same in reality as they do in the advertisements? Find out, and make an effective shot in the bargain, by filming a low angle shot from the front as the final strokes with the polishing cloth are completed. The car will appear about twice as long, and much more streamlined. This effect is enhanced by using a wide-angle lens.

Unusual lighting schemes can highlight many of your best reels. Natural light effects and special ones that are set up with photofloods are both suitable for home filming. An example of a different natural lighting effect would be the sunlight streaming through venetian blinds. Its very dramatic horizontal pattern of dark and light bars may be utilized for several different kinds of scenes.

If you are experimenting with glamor shots in movies, you'll want to film some with the light coming in through the blinds. Tilt the blinds to produce various proportions of dark and light. This light is most dramatic without supplementary illumination. But more conservative lighting is obtained when fill light is used. This may consist of a movie screen set by the window to reflect a diffuse light toward the subject or the use of photoflood bulbs in standard reflectors. This latter method has the advantage of making the light direction and intensity easier to control. Color film requires blue photofloods to more nearly match the quality of daylight.

At attractive shot that says "Morning is here!" would show Mother opening the blinds and letting the light stream in. Photofloods should be set up to light her and the blinds before they're opened, but the floods shouldn't be bright enough for full expo- (*Continued on page* 228)

Leader in Color too!

AUTOMATIC

Rolleiflex®

Ever wonder why Rolleiflex also is credited with *so many* of the fine color shots appearing in leading magazines? One of the outstanding reasons, of course, is Rollei's lens equipment. The lenses used in the Rolleiflex are selected for their unequalled color correction . . . being critically balanced to bring every color, including red, into the same sharp focal plane. This accounts for their true color rendition . . . even of the most delicate color tones. And since the lens best for color also is best for black-and-white . . . and since Rollei offers so many exclusive operating advantages . . . it's the logical choice for all types of work, either in *full color or monochrome.* See Rolleiflex, and the companion Rolleicord, at your local dealer's today.

Rollei Plate Back Sets complete your Rollei's versatility; enable you to use plates or cut film, with the wide variety of emulsions available. Order through your local dealer.

Burleigh Brooks Company

10 West 46th Street, New York 19, N. Y.

Western States, Alaska and Hawaii: **PONDER & BEST, INC.**

814 North Cole Ave., Hollywood 38, California

PHOTOGRAPHY

1952 Directory of Photographic Equipment

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1952 DIRECTORY OF PHOTOGRAPHIC EQUIPMENT

This Directory, the largest and most popular of its kind ever published, confines its listings primarily to photographic equipment for the amateur.

The Directory was compiled by the editors of PHOTOGRAPHY, who relied on information furnished by the manufacturers and distributors of the equipment. The properties ascribed to the various items are those claimed by the manufacturers and distributors themselves. All data given and prices quoted are as of March 1, 1952 and are subject to change.

Limitations of space prohibited detailed listing of some types of equipment. Classified under the heading of "Miscellaneous Equipment" will be found a condensed Directory covering items not described in detail. Further information on any items may be obtained by contacting photo dealers or the manufacturers or distributors themselves.

★ **ADDRESSES OF MANUFACTURERS AND DISTRIBUTORS ARE LISTED ON PAGE 218.** ★

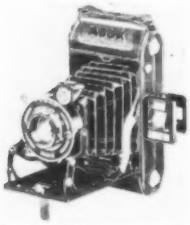
STILL CAMERAS

Stereo cameras are not included here. They are listed in the Stereo section on page 140.

ADOX ADRETTE II

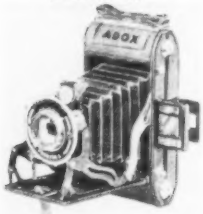
Cartridge 35 mm; 36 exposures, 1x 1¼; 50-mm Schneider lens; shutter speeds from 1 to 1/500 sec., T & B; eye-level finder; scale and manual focusing. Price, with f/2 Schneider Xenon lens in Compur Rapid shutter, $85; with Xenar f/2.8 lens in Compur shutter, $72; with Schneider Radionar f/2.9 lens in Prontor Flash shutter with built-in synchronization and delayed action, $50. All prices include tax. Eveready case, $5.50.

ADOX I



Rollfilm size 120; 8 exposures, 2¼x3¼ or 16 exposures 1⅝x2¼; 4¼-inch Schneider Radionar f/4.5 lens in Vario shutter with speeds from 1/25 to 1/100 sec., T & B; eye- and waist-level finders; manual focusing; film mask; body release. Price, $39.50 including tax. Case, $6.75.

ADOX II



Similar to Adox I except has Prontor II shutter with speeds from 1 to 1/200 sec., T & B; built-in synchronization; delayed action. Price, with 4¼-inch Schneider Radionar f/4.5 lens, $56.50; with 4¼-inch Xenar lens, $65. Price includes tax; eveready case, $6.75.
DIST., Camera Specialty Co.

AKAREX

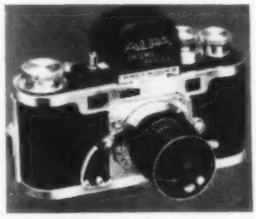
Cartridge 35-mm; 20 or 36 exposures, 24x36 cm; coated 50-mm Schneider Xenon f/2 lens; depth of field scale; bayonet base; Synchro-Compur shutter, speeds 1 to 1/500 sec & B; built-

in synchronization; coupled rangefinder; combined rangefinder and viewfinder window; exposure counter; exposure guide. Price, $225; case, $11.50.
DIST., Mitropa Corp.

ALPA REFLEX

Single-lens miniature reflex; cartridge 35-mm film size; 20 or 36 exposures, 24x36 mm; coated 50-mm Alfinon Anastigmat f/2.8 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; lens set in bayonet mount; built-in synchronization for all lamps; eye- and waist-level finders; reflex and coupled rangefinder focusing; exposure counter; device to permit double exposing. Prices, including tax, with coated Alfinon 50-mm f/2.8 lens, $259; with coated Alitar 50-mm f/1.8 lens or Alpa-Xenon 50-mm f/1.9 lens, $357; microscopic attachment, $15.90; eveready case, $12.

ALPA PRISMA-REFLEX



Same principle as Alpa Reflex, but with built-in Kern prism which reinverts image and offers convenient viewing angle of 45°. Prices, including tax, with coated Alfinon 50-mm f/2.8 lens $329; with coated Alitar 50-mm f/1.8 lens or Alpa-Xenon 50-mm f/1.9 lens $427; eveready case $13.20.

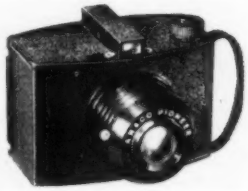
ALPA REFLEX ALITAX MODEL

Similar to the Alpax model except that it is equipped with a coated 50-mm Angenieux Anastigmat f/1.8 lens which stops down to f/22. Price, $327 plus tax. Lenses available for Alpa cameras: 35-mm Alfinar f/3.5 wide-angle lens; 75-mm Alsetar f/3.5 lens; 90-mm Alportar f/2.5 lens; 135-mm Alogar f/3.5 lens; 180-mm Alefar f/4.5 lens; 300-mm Telekilor f/5.6 lens; and 500-mm Fototel f/6.3 lens.
DIST., Heitz & Lightburn.

ANSCO FLASH CLIPPER

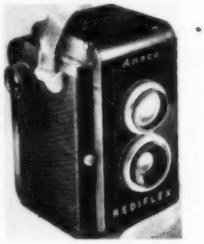
Roll film size 616; 16 exposures; 2 1/16x2¼ size; fixed focus; doublet lens; single-leaf shutter; built-in synchronization; eye-level viewfinder; built-in yellow filter. Price, $14.45 including tax. Accessories include eveready case at $3.25; flash unit, $3.45.

ANSCO PIONEER 16



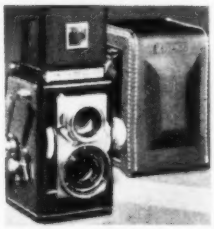
Rollfilm size 616; 8 exposures, 2½x4¼ size; single f/14 lens; fixed focus; single-leaf shutter; eye-level finder; built-in synchronization. Price, $9.68 including tax. Flash attachment available as accessory, $2.75.

ANSCO REDIFLEX



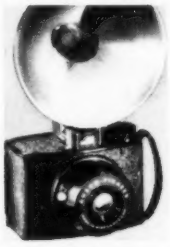
Rollfilm size 620; 12 exposures; 2¼x2¼ size; doublet f/11 lens; fixed focus; single-leaf shutter; built-in yellow filter; built-in synchronization; reflex-type finder. Price, $12.55. Accessories include flash attachment, $2.95, eveready case, $2.95.

ANSCO AUTOMATIC REFLEX



Rollfilm size 120; 12 exposures 2¼x 2¼; 2-lens reflex; 83-mm coated anastigmat f/3.5 lens; depth of field scale; set-and-release-type shutter; speeds from 1 to 1/400 sec. and B; built-in synchronization; eye-level and reflex-type finders; focusing scale; exposure counter; automatic film transport; double exposure prevention device; lever for taking multiple exposures; dual focusing controls; depth of field guide. Price, including tax, $189.25. Eveready case, $12.50. Accessories include filters, lens shade.

ANSCO PIONEER 20

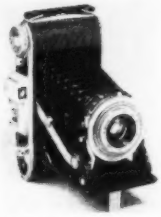


Rollfilm size 620; 8 exposures; 2¼x 3¼ size; same features and equipment as Pioneer 16. Price, $8.90 including tax.

ANSCO KAROMAT

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Xenar f/2 lens or coated 50-mm Rodenstock Heligon f/2 lens; depth of field scale; Synchro-Compur shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; built-in eye-level finder; helical focusing; coupled, single-window-type rangefinder; exposure counter; depth of field guide; rapid feeding lever with automatic shutter cocking device and exposure counter; body release; double exposure prevention device. Price, $168.50; case, $12.50.

ANSCO VIKING f/4.5



Rollfilm size 120; 8 exposures, 2¼x3¼; coated Agfa Agnar f/4.5 lens; Pronto shutter, speeds 1/25 to 1/200 sec. & B; built-in synchronization; built-in self-timer; manual focusing; swing-out film spool; eye-level viewfinder; tripod socket; cable release socket; all-metal construction. Price, $49.95; eveready case, $6.95.

ANSCO VIKING f/6.3

Similar to above, except with coated Agfa Agnar f/6.3 lens in Vario shutter, speeds 1/25 to 1/200 sec. & B; all other features same. Price, $36; case, $6.95.

ANSCO SPEEDEX SPECIAL

Rollfilm; 12 2¼x2¼ exposures; coated Agfa Apotar f/4.5 lens; Prontor shutter, speeds 1 to 1/300 sec., T & B; built-in synchronization; depth of field scale; double exposure prevention; built-in self-timer; self-erecting front; eye-level viewfinder; body shutter release; swing-out film spool; tripod socket; cable release socket; all-metal construction. Price, $49.95; eveready case, $6.95.

ANSCO SPEEDEX

Similar to above, but with coated Agfa Agnar f/4.5 lens in Vario shutter, speeds 1/25 to 1/200 sec. & B; built-in synchronization; no double exposure prevention or self-timer. Price, $37.50; case, $6.95.

MFR., Ansco

APLAX MODEL 35

Cartridge 35 mm; 36 exposures, 1x1½"; miniature camera; 50-mm coated f/1.9 Foca lens; depth of field scale; focal plane shutter, speeds from 1/10 to 1/1000 sec., T & B; built-in synchronization; eye-level finder; helical focus; coupled rangefinder, 1 window for range- and viewfinders; hyperfocal distance table. Price, with eveready case, $295.

APOLLO

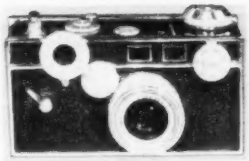
Roll film size 120; 16 exposures, 4¼x6 cm; self-erecting type; coated 75-mm Westler Anastigmat f/3.5 lens; shutter speeds from 1 to 1/200 sec., T & B; delayed action self timer built in below front lens; built-in eye-level finder; body release; depth of field scale; accessory clip. Price, with eveready case, $39.95 including tax.

DIST., General Photographic Supply Co.

ARGUS C-4

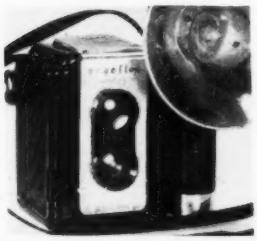
Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/2.8 coated Argus Cintar anastigmat lens; behind-the-lens shutter, 1/10 to 1/200 sec., & B; combined rangefinder and viewfinder, super-imposed image type; built-in flash synchronization with 5 and 20-ms. adjustments; exposure counter; fingertip focusing, 3 feet to infinity; automatic shutter cocking; double-exposure and skip-frame prevention device. Price $99.50. Accessories include eveready case, $7.50; clip-on flash unit with bayonet adapter, $10; flash extension, $3.75.

ARGUS C-3



Cartridge 35 mm; up to 36 exposures 1x1½; 50-mm coated Cintar anastigmat f 3.5 lens; behind-the-lens shutter, 1/10 to 1/300 sec., & B; built-in synchronizer; eye-level finder; coupled rangefinder; exposure counter; film indicator. Price, $69.50 including tax, flash unit, and carrying case. Accessories include slip-on lenses, filters, and lens shade.

ARGUS 75



Rollfilm size 620; 12 exposures, 2¼x2¼; fixed-focus f/13 taking lens; reflex viewfinder with folding metal hood; 1 & T shutter speeds; body release; built-in synchronization; double exposure prevention device. Price, $15.95 including tax; flash unit, $4.25; carrying case, $2.50. Accessories include slip-on lenses, filters, lens shade.

ARGUS 40

Rollfilm size 620; 12 exposures, 2¼x2¼; coated 75-mm anastigmat f/4.5 taking lens; waist-level finder; reflex focusing; shutter speeds from 1/25 to 1/150 sec., B; double exposure prevention device; voluntary double exposure arrangement; built-in synchronization; body release; eveready case. Price, $39.95; eveready case, $4.95; flash unit, $4.25. Prices include tax.

MFR., Argus Cameras, Inc.

BACO PRESS CLUB

Sheet film, packs, 2¼x3¼; optional 3½ or 4½-inch lens; collapsible wire frame type finder; groundglass, scale focusing; camera will take 8-inch Raptar in Rapax shutter. Price, without lens, $29.50 including tax. Accessories include, interchangeable lenses, tubular viewfinder, slip-on lenses, filters, film adapters, lens shade.

BACO 4x5 DELUXE PRESS VIEW

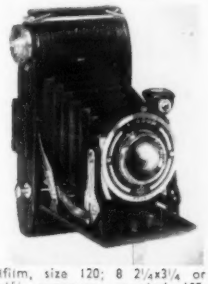
Sheet film, packs, 4x5; optional lens equipment; 22" bellows extension; fully revolving groundglass back; rising and falling, swinging and tilting lens board. Price less lens, $59.50; no excise tax. Accessories include various tubular finders; deluxe case which takes 12 4x5 holders, flashgun, extra lens, etc., $52.50.

MFR., Baco Accessories Co.

BALDA

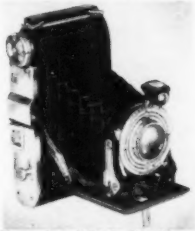
Folding camera; rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; 100-mm f/4.5 coated Radionar Anastigmat lens; Prontor S shutter, 1 to 1/300 sec., & B; body shutter release; delayed action timer; built-in flash synchronization; eye-level and waist-level finders; manual focusing; depth of field scale. Price on request.

BALDA 120



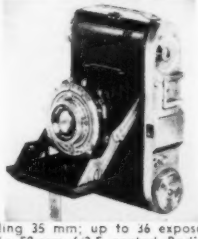
Rollfilm, size 120; 8 2¼x3¼ or 16 2¼x1⅝ exposures; coated 105-mm Enna Ennar f/4.5 lens; Pronto S shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; built-in self-timer; eye-level and waist-level viewfinders; manual focusing; tripod socket; cable release socket; body shutter release. Price, $38.50; eveready case, $6.50.

BALDALUX 120



Rollfilm, size 120; 8 2¼x3¼ or 16 2¼x1⅝ exposures; coated 105-mm Schneider Radionar f/4.5 lens; Prontor SV shutter, speeds 1 to 1/250 sec., & B; built-in synchronization; built-in self-timer; double exposure prevention; exposure counter; eye-level and waist-level viewfinders; manual focusing; body shutter release, accessory clip. Price, $49.95; eveready case, $6.50.

BALDINETTE



Folding 35 mm; up to 36 exposures, 1x1½; 50-mm f/3.5 coated Radionar Anastigmat lens; depth of field scale; Prontor SV shutter, 1 to 1/300 sec., & B; built-in flash synchronization; delayed action timer; double-exposure prevention device; body shutter release; eye-level finder; manual focusing. Price, $49.95, inc. tax; eveready case, $7.95.

DIST., Kling Photo Supply Corp.

BEATTIE PORTRONIC

Automatic portrait-type camera using

70-mm or 35-mm film; 235 70-mm exposures, 2½x3⅜ or 650 35-mm exposures, 1¼x1⅝; coated 6⅜-inch Wollensak Raptar f/6.3 lens in barrel mount; electric shutter set at 1/55 sec.; built-in synchronization; 1½-inch bellows; optical eye-level finder; focusing, manual or with groundglass back; magazine loading; automatic identification device. Price, $750; case, $35.

MFR., Photographic Products Inc.

BELFOCA

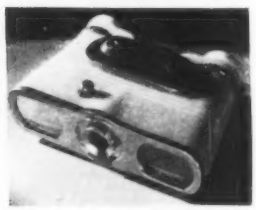
Folding; rollfilm size 120; 8 exposures, 2¼x3¼; f/4.5 coated anastigmat lens; depth of field scale; Prontor shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; delayed action timer; body shutter release; eye-level and waist-level finders; manual focusing, with provision for zone focusing. Price, $34.50, including tax; case, $6.

BELTICA

Folding 35 mm; all-metal construction; up to 36 exposures, 1x1½; f/2.9 coated Meritar or f/3.5 T-coated Zeiss Tessar lens; depth of field scale; synchronized Ovus shutter, 1 to 1/200 sec., T & B, or Compur Rapid shutter, 1 to 1/500 sec., & B, with built-in flash synchronization; exposure counter; eye-level optical finder; manual focusing. Price, with f/2.9 Meritar lens in Ovus shutter, $55 including tax; with f/3.5 Tessar in Compur Rapid shutter, $75, inc. tax.

DIST., Ercona Camera Corp.

BINOCA

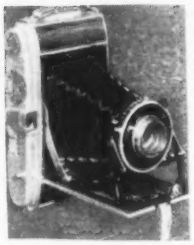


Sub-miniature using 16-mm film in special daylight-loading magazine; camera is included in a 2.5 power binocular; 40-mm f/4.5 lens, acting as telephoto; shutter speeds from 1/25 to 1/100 sec., & B; angle of camera and field of vision of the binocular are in ratio of 5:2; camera takes what binocular sees; camera is automatically focused at infinity at all times. Price, $32.95, including tax. Film available from distributor.

DIST., Random Corp.

BLOC METAL 45

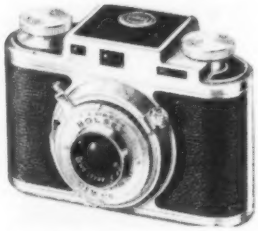
Roll film size 620; 8 exposures, 2¼x3¼; folding-type camera; 105-mm coated Berthoit f/4.5 anastigmat lens in Prontor synch shutter,



speeds from 1 sec. to 1/200 sec., T & B; delayed action; built-in synchronization; depth of field scale; eye-level finder; manual focusing; cable-release lock. Price, with leather eveready sheath, $60. Accessories include interchangeable lens, slip-on lenses, filters, etc.

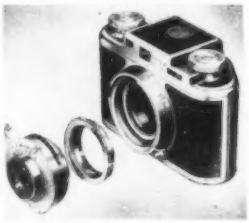
DIST., General Photographic Supply Co.

BOLSEY MODEL B



Cartridge 35 mm; up to 40 exposures, 24x36 mm; coated 44-mm f/3.2 Wollensak Anastigmat lens; Wollensak 3-blade shutter, speeds from 1/10 to 1/200 sec., T & B; eye-level finder; exposure counter; scale and helical focusing; coupled rangefinder with two windows for range- and viewfinder; extremely small and compact. Price, $61.50 including tax; eveready case, $7.95. Accessories include slip-on lenses, filters, flashgun and synchronizer.

BOLSEY B SPECIAL

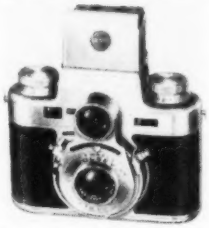


Identical to the Bolsey B except that the lens and shutter assembly are instantly removable for interchanging lens and extension rings. Price, $71.25 including tax. Same accessories available.

BOLSEY MODEL B2

Identical to Model B in appearance and equipment; added features include a double-exposure-prevention device, synchronized shutter with internal wiring in the camera; and new screw-on socket for flashgun; depth-of-field scale, and a film-type indicator. Price, $73.50 including tax; eveready case, $7.95.

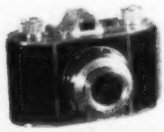
BOLSEY MODEL C TWIN LENS REFLEX



Cartridge 35 mm; up to 40 exposures, 24x36 mm; matched 44-mm coated f/3.2 Wollensak Anastigmat lenses; depth of field scale; 2-lens reflex camera; Wollensak shutter, speeds from 1/10 sec. to 1/200 sec., T & B; synchronized shutter with internal wiring in camera; reflex focusing and helical focusing; coupled rangefinder; two windows for range- and viewfinder; double exposure prevention device; exposure counter; depth-of-field scale; film speed indicator; film-type indicator. Price, $109.50 including tax; eveready case, $10.50.

MFR., Bolsey Corp. of America.

BOWER-35



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 45-mm Steinheil Cassar f/2.8 lens; depth of field scale; Prontor-S synchronized shutter, speeds 1 to 1/300 sec., & B; built-in synchronization; also available with Vario, Prontor SV and Synchro-Compur shutters; visula exposure system, by means of colored dots; double exposure prevention; automatic exposure counter; eye-level viewfinder; body and lens shutter releases; cable release socket; all-metal construction; tripod socket; recessed lens; manual focusing. Price, with Prontor-S shutter, $45; with Vario synchronized shutter, $37.50; with Prontor-SV synchronized shutter, $48.50; with Synchro-Compur shutter, $53.50. Eveready case, $7.50.

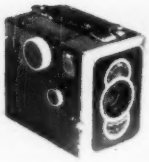
BOWER-X

Rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; f/4.5 coated Schneider Radionar lens; synchronized Vario shutter, 1/25 to 1/200 sec., & B, or Prontor S shutter, 1 to 1/250 sec., & B, built-in synchronization, and delayed action timer; camera automatically locks for picture size being used; eye-level and waist-level finders; self-erecting front; body shutter release, cable release socket; leather bellows. Price, with Vario shutter, $34.50 including tax; with Prontor S shutter, $43.

DIST., Saul Bower, Inc.

BOX TENGOR

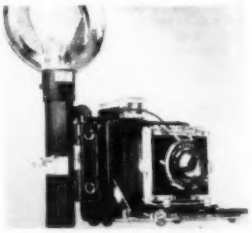
Rollfilm, size 120; 8 2¼x3¼ exposures; coated Goerz Frontar f/9 lens, 3 apertures; rotary-type shutter, speeds 1/30 sec., & B; built-in synchronization; waist-level viewfinders; 3 focus-



ing zones; focusing by means of self-changing supplementary lenses. Price, $17.

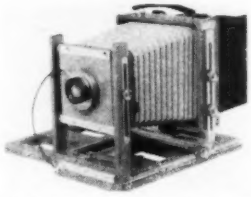
DIST., Carl Zeiss, Inc.

B&J SPEED PRESS 2¼x3¼



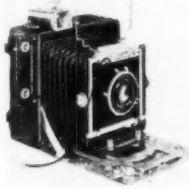
Sheet film, packs, 2¼x3¼; optional lens equipment; 8¼" bellows; double extension; parallax-correcting eye-level finder; swings and tilts on lens board; drop bed; calibrated groundglass with four-sided focusing hood; revolving back. Price, less lens, $69.50; with coated 4⅛-inch Voigtlander f/4.5 lens in synchronized shutter, speeds 1/25 to 1/200 sec., & B, $98.50; deluxe case, $16.95. Accessories include rangefinder, flash equipment, interchangeable lenses, filters.

B&J COMMERCIAL VIEW 4x5



Sheet film, packs, 4x5; optional lens and shutter equipment; 20" bellows extension; reversible wood back; rack-and-pinion focusing; double extension bellows; calibrated groundglass with four-sided focusing hood; 5¼x5¼" lens board. Price, less lens, $74.50; 5x7 as above, $84.50, less lens; 8x10, $109.50, less lens; deluxe case, $10.95. Accessories include reducing back.

B&J SPEED PRESS 4x5



Sheet film, packs, 4x5; optional lens equipment; 13" bellows extension; eye-level finder; revolving back; track lock; all-metal body; all swings and tilts on lens board; drop bed; calibrated groundglass with four-sided focusing hood; focusing scale; 4x1[illegible] lens board. Price, less lens, $84.50; with coated 5¼-inch f/6.3 lens in synchronized shutter, speeds to 1/200

Abe Cohen's Exchange NEW PRICE REDUCTIONS SAVINGS UP TO 60%

HUNDREDS OF SENSATIONAL REDUCTIONS · THOUSANDS MORE ON OUR SHELVES · WRITE OR CALL

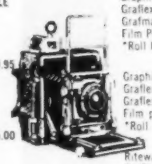
BIG SAVINGS! ONLY 6

BRAND NEW GRAPHICS

Contain all the features of the latest camera including Graflok back but less Ektalite field lens.

	Reg.	SALE
4x5 PACEMAKER CROWN GRAPHIC, with 5¼" Optar F4.7 coated lens, Graphex full synchro shutter. Includes Kalart rangefinder installed, 1 film holder	$240.15	$189.95
4x5 PACEMAKER SPEED GRAPHIC, with 5¼" Optar F4.7 coated lens, Graphex full synchro shutter. Includes Kalart rangefinder installed, 1 film holder	284.20	225.00
3¼x4¼ PACEMAKER SPEED GRAPHIC, with 5¼" Optar F4.5 coated lens, Graphex full synchro shutter. Includes Kalart rangefinder installed, 1 film holder	276.00	217.50

Write for information and prices concerning other models



SPECIAL CLOSE OUT!

11 x 14 Kodak Masking Easel—Formerly $19.75

WHILE THEY LAST

$9.49

Rangefinder-coupled

PROXIMETER

for RETINA II or IIA

$19.95

Automatic parallax correction and rangefinder focusing gives you perfect results down to 13". A must for accurate copying work. Fits Xenon or Heliogon lenses. Model I for 38" to 20". Model II for 20" to 13".

Imported from Germany

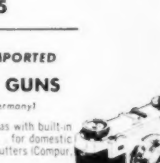
PRAEZISA RANGEFINDER

$3.95

All-metal construction, with external adjustment screw. Super-imposed image system makes for accurate focusing from two feet to infinity. Please specify feet or meters when ordering.

LEATHER CASE ..... $.75

KOBAL SELF TIMER



Fits all cameras with cable release socket. Screws directly into cable release socket. Automatic retracting pin prevents shutter damage.

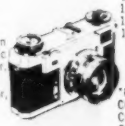
SPECIAL MODEL AVAILABLE FOR LEICA

only $2.95

BIG SAVINGS ON IMPORTED

BOWER FLASH GUNS

(Made in U. S. Zone of Germany)



High quality flash unit for cameras with built-in flash. Available in two models ... for domestic shutters (Kodak) or for foreign shutters (Compur, Prontor, etc.)

Includes battery case, midget bulb reflector, cord, bracket and instruction sheet.

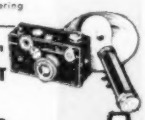
only $5.95

(Postpaid)

Please specify shutter when ordering

SAVE $20 on NEW 35mm

ARGUS C3 OUTFIT



Reg. $95.00

COMPLETE $74.50

with
- Coated F3.5 lens
- Leather case
- Flash gun
- coupled rangefinder

INCLUDES
- New Telephoto lens
- 3 filters (your choice)
- Adapter Ring
- Sunshade

CAMERA and FLASH GUN less accessories $62.50

PRICES REDUCED ON BRAND NEW GRAPHIC AND GRAFLEX ACCESSORIES FOR USE WITH SPEED GRAPHIC, BUSCH, B & J AND SIMILAR PRESS CAMERAS AND WITH GRAFLEX CAMERAS

	Reg.	SALE
2¼" x 3¼"		
Graphic film holders (double)	$ 3.80	$ 3.05
Graflex film holders (double)	4.75	3.75
Grafmatic film holders (for 6 films) (for Graflok or Graflex back, specify)	14.85	11.88
Film Pack adapter (Graphic or Graflex)	6.85	5.48
*Roll Holders (Graflok or Graflex back, specify)	18.95	15.15
3¼" x 4¼"		
Graphic film holders (double)	3.95	3.15
Graflex film holders (double)	5.10	4.08
Graflex sheet film magazine (for 12 films)	29.35	23.50
Film pack adapter (Graphic or Graflex)	7.75	6.10
*Roll Holders (Graflok or Graflex back, specify)	21.50	17.20
4" x 5"		
Riteway film holders (double)	4.05	3.24
Graflex film holders (double)	5.45	4.36
Grafmatic film holders (for 6 films) Graflok back	21.95	17.56
Grafmatic film holders (for 6 films) Graflex back	23.50	18.80
*Roll Holders (Graflok or Graflex back, specify)	21.50	17.20
Graflarger back (converts your Graphic or Graflex into an enlarger) 2¼x3¼, 3¼x4¼ or 4x5 size, specify	35.00	28.00
Stand for use with Graflarger	17.50	14.00
Polaroid Land Back, fits 4x5 Graflok back	77.50	62.50

*All roll holders use 120 film and are available in 2¼ x 3¼ or 2¼ x 2¼ picture size — specify size you prefer

Similar reductions on many other accessories. Write, giving us your requirements

FOR PRESS, MEDICAL OR PORTRAIT PHOTOGRAPHERS, THE GREAT NEW 35mm EXAKTA VX

WITH CARL ZEISS PRE-SET DIAPHRAGM LENS

You get the ultimate in picture taking with this truly great camera. True exactness in size, composition, detail and sharpness are yours with the Exakta VX.

- Pre-set diaphragm lens keeps pre-selected aperture
- Shutter speeds from 12 seconds to 1/1000th
- Interchangeable lens and view finders
- Internal synchronization, coupled film transport and cocking, cartridge to cartridge film feed

With "T" coated Zeiss Tessar F2.8 lens $269.50
With "T" coated Zeiss Biotar F2 lens $343.00

TRADES: UP TO $125.00* for your old Kine Exakta I with Tessar F3.5 lens toward the Exakta VX. Similar high prices paid for other models or for your present camera.

*Subject to our inspection

SAVE $115.50 on Brand New Discontinued Model

KINE EXAKTA II 35mm Reflex Camera

With T coated Zeiss Biotar F2 lens and Leather Eveready case

$315.00 Value **special $199.50**

LENSES FOR KINE EXAKTA

all new except where marked otherwise

		Reg.	SALE
40mm Hugo Meyer F4.5 coated wide angle	L.N.	$ 74.50	$ 49.50
40mm Schneider Isogon F4.5 coated wide angle		58.93	47.50
75mm Zeiss Biotar F1.5 coated	L.N.	216.50	149.50
85mm Steinheil F2.8 coated with leather case		74.50	57.50
105mm Wirgin F4.5 coated		49.50	34.50
105mm Schneider Xenar F3.5 coated		76.78	62.50
135mm Steinheil F4.5 coated with case		67.50	52.50

(Many others — write for information)

SAVE $273.00 — LIKE NEW

35mm CONTAX S with EYE-LEVEL FOCUSING

WITH PRE-SET DIAPHRAGM MOUNT

Coated Zeiss Biotar F2 lens, Leather Eveready case. Built-in flash synchronization, self-timer, shutter speeds, 1 second to 1/1000th.

REG. $492.50 **special $259.50**

LENSES FOR CONTAX S

		Reg.	SALE
4cm Zeiss Tessar F4.5 coated wide angle	L.N.	$150.00	$ 69.50
7.5cm Zeiss Biotar F1.5 coated	L.N.	295.00	129.50
10.5cm Schneider Xenar F3.5 coated lens	new	76.78	62.50
13.5cm Schneider Xenar F4.5 coated	new	58.75	47.50
13.5cm Steinheil F4.5 coated	new	67.50	52.50
180mm Hugo Meyer F5.5 coated lens	L.N.	110.00	69.50

Many others in stock. Write for any lens not listed

LATEST MODEL CONTAX CAMERAS FROM AMERICAN ZONE OF GERMANY

		Reg.	ONLY
*CONTAX IIIA, with coated Zeiss Sonnar Opton F1.5 lens and case	L.N.	$550.00	$399.50
CONTAX IIA, with T coated Zeiss Sonnar Opton F2 lens and case	L.N.	460.00	269.50
CONTAX IIA, with T coated Zeiss Sonnar Opton F1.5 lens and case	L.N.	504.00	304.50
CONTAX IIA, with Sonnar F2 coated lens and case	L.N.	460.00	252.50
CONTAX IIA, with T coated Zeiss Sonnar F1.5 lens and case	L.N.	504.00	285.00

Opton lenses are the new lenses manufactured in American Zone of Germany.

*With built-in electric cell exposure meter

LENSES FOR THE CONTAX

		Reg.	SALE
28mm Tessar F8 Wide Angle with case	exc.	$120.00	$ 72.50
50mm Tessar F3.5 coated	L.N.	70.00	42.50
50mm Sonnar F1.5 coated	L.N.	224.00	97.50
85mm Sonnar F2 coated lightweight chrome	L.N.	292.50	129.50
135mm Sonnar F4 coated lightweight chrome	L.N.	170.00	102.50
35mm Biogon F2.8 coated W.A. lightweight (for Contax I, II or III)	L.N.	245.00	99.50
180mm Zeiss Sonnar F2.8 coated, reflex housing, includes filter	V.G.	550.00	197.50

Many other lenses in stock. Write for any lens not listed.

Special Buy!

KENFLEX

Twin Lens Reflex Flash Camera

$65 Value

only $39.50

Imported precision made camera with features you'd expect to find in a camera selling for twice the price.

- F3.5 Viewing lens and F3.5 coated picture taking lens
- Speeds from 1/10th to 1/200th
- Built-in Flash

EVEREADY LEATHER CASE $8.50
FLASH GUN $5.95

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BELOW WHOLESALE COST

16mm BELL & HOWELL

Magazine Load Automaster Turret Camera

List Price $386.00

only $249.50

With these great features:

- 5 shutter speeds
- Single frame release
- Continuous run lock
- Built-in exposure guide
- Instant film load
- GUARANTEED FOR LIFE BY BELL & HOWELL

Fitted with 3 fine lenses and finders

- 1" Super Comat F1.9 coated lens
- 17mm Wollensack Raptar F2.7 coated wide angle lens
- 3" Berthiot F3.5 coated telephoto lens
- 3 matching positive view finder lenses

GET UP TO $70.00* FOR YOUR OLD MINOX II CAMERA TOWARD NEW 1952

MINOX III CAMERA

(So small it takes up less space than a pack of cigarettes)

only $129.50

With case and calibrated measuring chain

- 2 built-in self-cleaning filters
- Speeds from ½ to 1/1000th
- New F3.5 lens
- Automatic loading
- 50 exposure black and white cartridge or 24 color

GET UP TO $75.00* FOR YOUR OLD MINOX ENLARGER TOWARD NEW

MINOX III ENLARGER

Complete with F3.5 lens, enlargements up to 11x14 on baseboard. Easy film insertion, automatic self-locking head and rheostat control.

PLUS A HOST OF OTHER GREAT FEATURES

only $175.00

COPYING ATTACHMENT FOR ENLARGER $19.95

*Subject to inspection

Latest Model

VOIGTLANDER BESSA I OUTFIT

2¼x3¼ Roll Film Camera

Has coated Vaskar F4.5 lens in Prontor S shutter, built-in flash and built-in self timer.

only $59.50

SAVE $17.50 PURCHASE COMPLETE OUTFIT

OUTFIT INCLUDES: CAMERA, EVEREADY LEATHER CASE, SIMS FLASH GUN

Complete Outfit—Reg. $80.00

only $62.50

PRICES SLASHED ON ACCESSORIES

	Formerly	SALE
2¼x2¼" DELPHIC HAND VIEWERS	$3.50	$1.39
DELPHIC SLIDE KITS for 2¼x2¼ transparencies (consists of 24 sheets of glass and 12 masks) per kit		.39 (Minimum order 3)
3½" CONDENSERS, finest quality, for enlargers, projectors, etc. each		.98 (Minimum order 2)

ALL PRICES F.O.B., N. Y. EXCEPT WHERE STATED OTHERWISE

ABE COHEN'S EXCHANGE, INC.

"THE HOUSE OF PHOTOGRAPHIC VALUES"

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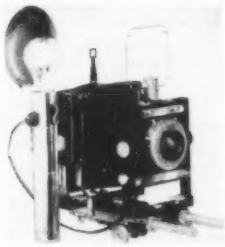
sec., $115. Same accessories available as above; price of case the same.
MFR., Burke & James, Inc.

BRAND 17 4x5 UNIVERSAL CAMERA



Sheet film, packs, choice of 4x5, 3¼x4¼, or 2¼x3¼ backs; also 4x5 dividing back; optional lens equipment; takes focal lengths from 3½ to 17 inches; magnesium construction; 17" bellows extension; collapsible wire frame-type finder; front and back swing, rise, tilt; drop bed; scale focusing; revolving groundglass back. Price, with 4x5, 3¼x4¼ or 2¼x3¼ revolving Graphic back, $105; with 4x5 and 3¼x4¼ revolving Graflex back, $108; with 4x5 revolving Graphic dividing back, $120. Accessories: interchangeable lenses, filters, Kalart rangefinder, flash, case, film holders, film hangar.
MFR., Brand Camera Co.

BROWNIE FLASH SIX-20 MODEL

Rollfilm size 620; 8 exposures, 2¼x3¼; meniscus lens; two-position focusing, I & B shutter settings; enclosed eye-level finder; built-in synchronization. Price, with Flasholder unit, $16.05; without Flasholder unit, $13.35. Tax included in both prices. Close-up attachment No. 7A and cloud filter available as accessories.

BROWNIE REFLEX—SYNCHRO MODEL

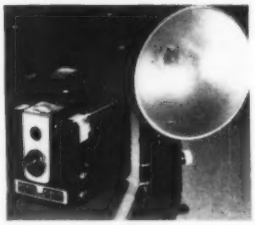
Rollfilm size 127; 12 exposures, 1⅝x1⅝; meniscus lens; I & B shutter settings; built-in synchronization; fixed focus; reflex finder. Price, $12.05 including tax; Flasholder, $2.64 including tax. Accessories available include cloud filter and closeup attachment No. 13.

BROWNIE TARGET, SIX-20

Takes roll film size 620, 8 exposures, 2¼x3¼; meniscus lens, single-action shutter; I & B; waist-level finder; fixed focus. Price, Six-20 model,

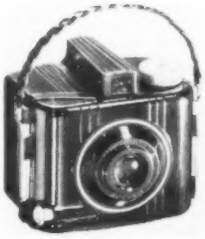
$7.10 including tax; closeup attachment No. 6A and cloud filter available as accessories.

BROWNIE HAWKEYE FLASH



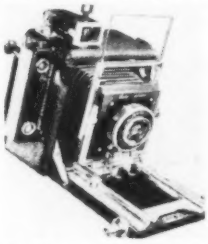
Rollfilm size 620; 12 exposures, 2¼x2¼; 81-mm f/15 fixed focus lens; shutter has speeds which allow it to be used with Class F or Class M flash lamps, and B; shutter release bar flush with camera body; waist-level reflex-type finder. Price, $7.20, including tax. Kodalite Flasholder, with flashguard, $3.39. Close-up attachment No. 13 and cloud filter available as accessories.

BABY BROWNIE SPECIAL



Roll film size 127; 8 exposures, 1⅝x2½; meniscus lens, instantaneous; fixed focus; enclosed eye-level finder; body-type plunger. Price, $2.85 including tax. Close-up attachment No. 3 available as accessory.
MFR., Eastman Kodak Co.

BUSCH PRESSMAN C



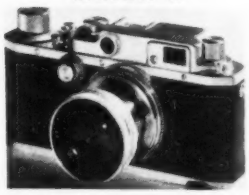
Sheet film, pack, 2¼x3¼; lens equipment optional; 9" bellows; eye-level and collapsible wire frame type finders; groundglass and scale focusing. Takes all standard press camera accessories. Price, less lens, $89.60, including tax. Professional case, $36.50.

4x5 PRESSMAN D

Sheet film 4x5, pack 4x5 or 3¼x4¼; compact, all-metal box; available with 127-mm coated Kodak Ektar f/4.7 lens; or 135-mm coated Wollensak Raptar f/4.5 lens in 3 models of Supermatic or Rapax shutters; shutters have built-in syn-

chronization; double extension bellows taper to lens mount; eye-level finder and collapsible wire frame finder with parallax correction on rear sight; groundglass back; manual and scale focusing; coupled rangefinder; combined rangefinder-viewfinder with automatic parallax compensator and electrical focusing beam; revolving back; focusing magnifier; adjustable infinity stops for interchangeable lenses. Price, $105, less lens.
MFR., Busch Camera Co.

CANON II



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Serenar Anastigmat f/3.5 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/500 sec., B; built-in eye-level finder; helical focusing; coupled rangefinder with I window for range- and viewfinder; film counter; accessory clip. Price, $168.50 including tax; eveready case, $10.50.

CANON IIB

Same as Model II, but is equipped with built-in magnifier for dim-light focusing. Price, $189, including tax; eveready case, $10.50. Model IIB with 50-mm f/1.9 Serenar Anastigmat lens, $249.50, including tax; eveready case, $10.50.

CANON IIC

Same as Model IIB but shutter speeds range from 1 to 1/1000 sec., T & B; built-in flash synchronization for all lamps; f/1.9 lens. Price, $285.45, including tax; eveready case, $10.50.
DIST., C. R. Skinner Mfg. Co.

CIRO-FLEX F

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; equipped with coated 85-mm Wollensak Raptar f/3.2 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & B; built-in synchronization for all lamps including electronic flash; depth of field scale. Price, $155.90; case, $8.50; flash unit, $14.10. Complete line of accessories for all Ciro-flex cameras.

CIRO-FLEX E

Similar to Model F; equipped with coated 85-mm Wollensak Raptar f/3.5 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & B; built-in synchronization for Class F & M lamps. Price, $117.50.

CIRO-FLEX D

Similar to Model E; equipped with Synchromatic Alphax shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization for Class F & M lamps. Price, $87.90.

CIRO-FLEX C

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; 85-mm coated Wollensak Velostigmat f/3.5 lens; depth of field scale; Rapax shutter, speeds from 1 to 1/400 sec., T & B; reflex and scale focusing; eye-level finder. Price, $97.65.

CIRO-FLEX B

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; 85-mm coated Wollensak Velostigmat f/3.5 lens; depth of field scale; Alphax shutter, speeds from 1 to 1/200 sec., T & B; reflex and scale focusing; eye-level viewfinder. Price, $75.60.

CIRO 35R

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Wollensak Anastigmat f/4.5 lens in Alphax shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization for Class F & M lamps; built-in eye-level finder; scale focusing; coupled rangefinder; film counter; accessory clip. Price, $44.15; eveready case, $6.50; flash unit, $5.85.

CIRO 35S

Identical to Model R except is equipped with coated 50-mm Wollensak Anastigmat f/3.5 lens. Price, $49.05.

CIRO 35T

Similar to Model S; equipped with coated 50-mm Wollensak Anastigmat f/2.8 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & B. Price, $89.50.
MFR., Graflex, Inc.

CLASSIC 35

Cartridge 35 mm; up to 72 exposures, single-frame 35 mm; 32-mm coated f/4.5 Anastigmat lens; between-the-lens shutter with 1/50 sec. shutter speed; cable release socket for T exposures; arranged for synchronized flash; eye-level finder; fixed focus; film winder cocks shutter preventing double exposures; exposure counter with magnifying glass; exposure guide; lens cover; shutter release flush on body; cannot be operated when lens barrel is retracted. Price, $36.50 including tax.
MFR., Craftmen's Guild.

COMPCO REFLEX II

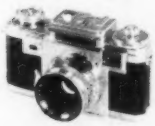
Twin-lens reflex; rollfilm size 620; 12 2¼x2¼ exposures; reflex type finder; fixed focus 81-mm doublet lens; I & T shutter speeds; built-in synchronization; body shutter release. Price,

$9.95; eveready case, $2; flash unit, $3.
MFR., Compco Corp.

CONTAX IIA

Cartridge or spool 35 mm; up to 36 exposures, 1x1½; adaptable to sheet film; bayonet-type lens mount; metal focal-plane shutter with speeds from ½ to 1/1250 sec., B; built-in self timer for 3, 6, 9, and 12-sec. delay; built-in synchronization; film-type indicator; automatic film transport; exposure counter; coupled single-window-type rangefinder; depth of focus guide; tripod socket is now integral part of camera body; made by Zeiss Ikon Stuttgart in U. S. zone of Germany. Price, with coated 50-mm Tessar, $334; with coated 50-mm Sonnar f/2 lens, $444; with coated 50-mm Sonnar f/1.5 lens, $488; case, $16. Complete line of accessories available.

CONTAX IIIA



Same as Contax IIA, but with built-in ASA calibrated photoelectric exposure meter. Price, with coated 50-mm Zeiss Tessar f/3.5 lens, $380; with 50-mm Sonnar f/2 lens, $490; with 50-mm Sonar f/1.5 lens, $534. Eveready case, $10. Accessories same as for Contax IIA.

CONTESSA 35

Cartridge 35 mm; 20 or 36 exposures, 1x1½; 45-mm f/2.8 coated Zeiss Tessar lens; depth of field scale; combined eye-level rangefinder and viewfinder; built-in ASA calibrated photoelectric exposure meter; Compur Rapid shutter, speeds to 1/500 sec., & B; built-in flash synchronization; self-erecting front. Price, $214; eveready case, $12.
DIST., Carl Zeiss, Inc.

CORONET POPULAR 12

Rollfilm sizes 120 or 620; 12 exposures 2¼x2¼; T & I shutter speeds; built-in flash synchronization; reflex viewfinder; Coronac lens. Price on request.

CORONET F/20

T-in lens reflex; rollfilm sizes 120 or 620; 12 exposures, 2¼x2¼; meniscus lens; T & I shutter speeds; built-in synchronization; all metal construction; built-in yellow filter. Price on request.

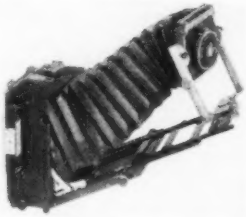
CORONET CUB

Miniature camera; rollfilm size 828; 8 exposures 28x40 mm; T & I shutter speeds; built-in synchronization; eye-level viewfinder; tripod socket; built-in yellow filter. Price on request.
DIST., General Photographic Supply Co.

CURTIS COLOR SCOUT 4x5

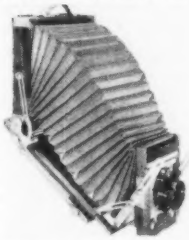
Color camera, I-shot; 2-mirror type; negative size 4x5; takes sheets or filmpack; coated 8½-inch Kodak Ektar f/6.3 lens; No. 33 Ilex Acme Synchro shutter, speeds 1 to 1/200 sec., T & B; Kalart coupled rangefinder; built-in synchronization. Price, including viewfinder; rangefinder; flash gun; six film holders in carrying case; compensating filters for daylight, tungsten, regular and electronic flash; lens shade and filter holder; and fitted compartment carrying case, $880.74.
MFR., Curtis Laboratories, Inc.

DEARDORFF UNIVERSAL TRIAMAPRO 4x5



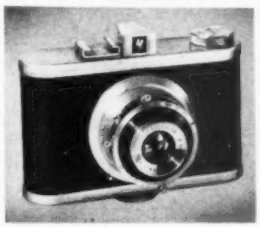
Plates, sheet film, filmpack, or adaptable to roll film with holders; supplied with standard spring backs; can be adapted to all synchronous flash and rangefinder equipment; 19-inch bellows; triple extension; lens board rises, lowers, swings vertically and horizontally; double sliding front standard; camera bed rises, lowers, drops completely for wide-angle lenses; separate double extension wide-angle track; metal revolving back; peep sight and wire finder. Price upon request. Fitted case available.

DEARDORFF PRECISION VIEW 4x5, 5x7, 8x10



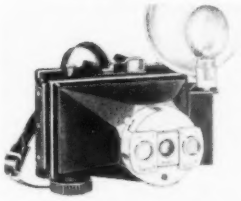
All similarly built except for size; 18" bellows extension on 4x5 24" on 4x5 Special, 5x7, and 30" on 8x10 model. Prices, without lens equipment, 4x5 model, $174; 4x5 Special, $230; with revolving back, $250; 5x7 model, $230; 8x10 model, $300. No federal tax applicable. 4x5 Special, 5x7, and 8x10 equipped with double-swing front. Available as accessories are carrying cases, reducing, dividing backs, extra lensboards, Packard shutter adapters.
MFR., L. F. Deardorff & Sons, Inc.

D'ASSAS



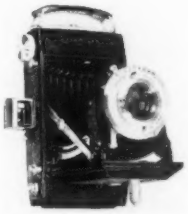
Rollfilm size 120; 12 exposures, 2¼x2¼; 75-mm f/4.5 coated Boyer Topaz Anastigmat lens; Gitzo shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; eye-level finder. Price, $37.50, including tax; case, $7.
DIST., Mimosa-American Corp.

DOVER DUAL LENS FLASH 620A



Roll film size 620; 16 exposures, 1⅝x2¼; Somco meniscus lens; f/stop and shutter speed synchronized, using 5 lens apertures according to exposure chart on camera; dual lens mount with portrait-type lens and filter included; eye-level finder; built-in synchronization; case included. Price, $11.45.
MFR., Dover Film Corp.

DREPY



Rollfilm, size 120; 8 exposures, 2¼x3¼ or 16 exposures, 2¼x1⅝; coated 105-mm Drestly f/4.5 lens; Drestop shutter, speeds 1/25 to 1/100 sec., T & B; built-in synchronization; delayed action timer; eye-level viewfinder; depth of field scale; film mask. Price, $44.07; case, $5.10.
DIST., Delta Foreign Sales Corp.

EAGLE EYE 120

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T shutter settings; plunger-type release; eye-level finder; safety lock on back; all-metal construction. Price, $5.95.
MFR., Pho-Tak Corp.

EDINEX

Cartridge 35-mm; up to 36 exposures, 1x1½; helical focusing; tripod socket; cable release socket. Price, with coated f/4.5 lens in Prontor-S synchronized shutter, speeds 1 to 1/300 sec., & B with self-timer, $29.95; with coated f/2.8 Steinheil lens in Pronto flash shutter, speeds 1/25 to 1/200 sec., & B, self-timer, $37.50; with coated f/2.8 Steinheil lens in Prontor-S flash shutter, speeds 1 to 1/250 sec. & B, self-timer, body shutter release, $45.95; with coated f/2.9 Schneider lens in Prontor-S flash shutter, self-timer, body shutter release, $45.95; eveready case, $5.95.
DIST., Camera Specialty Co., Inc.

ELMO FLEX III-B

Roll film size 120; 12 exposures, 2¼x2¼; coated 75-mm Zuiko f/3.5 taking lens and Zuiko f/3.5 viewing lens; Seikosha-Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level finder; reflex focusing; depth of field scale; exposure counter; automatic stop film winding; tripod socket; case. Price, $135.
DIST., General Photographic Supply Co.

ENSIGN SELFIX 12-20

Rollfilm, size 120 or 620; 12 exposures, 2¼x2¼; coated 75-mm Ross Xpres f/3.5 lens; depth of field scale; Epsilon shutter; built-in synchronization; double exposure prevention; helical focusing; self-erecting viewfinder; all-metal construction. Price on request.

ENSIGN SELFIX 16-20/I

Rollfilm, size 120 or 620; 16 exposures, 2¼x1⅝; coated 75-mm Ensar f/4.5 lens; Epsilon shutter, speeds 1/25 to 1/300 sec., T & B; built-in synchronization; direct vision viewfinder. Price on request.

ENSIGN SELFIX 16-20/II

Same as above, but with coated 75-mm Ross Xpres f/3.5 lens. Price on request.

ENSIGN SELFIX 820

Rollfilm, size 120 or 620; 8 exposures, 2¼x3¼ or 12 exposures, 2¼x2¼; available with coated 105-mm Ensar f/4.5 lens or coated 105-mm Ross Xpres f/3.8 lens; depth of field scale; Epsilon shutter, speeds 1 to 1/250 sec., T & B; built-in synchronization; double exposure prevention; all-metal construction; eye-level viewfinder. Price on request.
DIST., Alco Photo Supply Corp.

EPOCHS

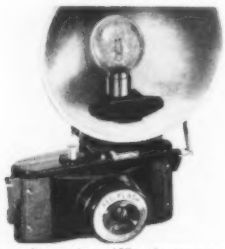
Sub-miniature using special roll-film size; 10 exposures, 14x14 mm; daylight loading rolls; 20-mm Talent lens with fixed diaphragm opening; shutter speeds, 1/25, 1/50, B; built-in eye-level finder; weighs ¼ pound.

Price, with case, $9.75.
DIST., General Photographic Supply Co.

ETARETA CANDID

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm Etar f/3.5 lens; Etaxa shutter with speeds from 1/10 to 1/200 sec., T & B; lens and shutter in collapsible tube with bayonet lock; built-in eye-level finder adjustable to user's eye; automatic film transport and counter; eveready case. Price, $69 including tax. Accessories include lens shade, filters, etc.
DIST., American Equipment Co.

FED-FLASH



Roll film size 127; 8 exposures, 1⅝x2½; 64-mm achromatic meniscus f/15 lens; Federal Flash-matic shutter with 1/40 sec. speed; built-in synchronization; fixed-focus; eye-level finder. Price of camera, $9.75 including tax; flash unit available as accessory for $2.95 including tax.
MFR., Federal Mfg. & Eng. Corp.

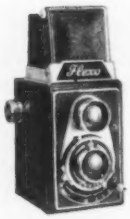
FERRANIA ELIOFLEX

Twin-lens reflex; rollfilm, size 120; 12 exposures 2¼x2¼; coated 85-mm Galileo Monog f/8 taking lens; Ferrania Special self-cocking shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; helical focusing; wire frame viewfinder; exposure counter; exposure guide; double-exposure prevention; all-metal construction; tripod socket, cable release socket; shutter lock. Price, $27; eveready case, $5.50.

FERRANIA RONDINE

Rollfilm size 127; 8 exposures 1⅝x2½; 75-mm f/8.8 Ferrania Linear coated lens; Ferrania shutter, speeds instant (1/75 sec.) and T; built-in flash synchronization; eye-level and waist-level finders; all-metal construction; choice of five colors in leather covering. Price, $14.50 including tax; eveready case, $3. Ferrania folding flash unit, with battery, $7.20 including tax.
DIST., G. A. Buttafarri.

FLEXO REFLEX MODEL II

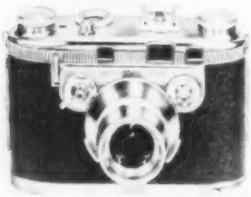


Twin-lens reflex; rollfilm size 620; 12 exposures, 2¼x2¼; 75-mm f/3.5 Ennar coated anastigmat lens; depth of field scale; Prontor S shutter, 8 speeds to 1/300 sec., & B; built-in flash synchronization; delayed action timer; ground-glass reflex focusing. Price, $70.95 including tax; Model I has 3 shutter speeds up to 1/200 sec., & B; price, $51.60 including tax. Eveready case, $8.
DIST., Alco Photo Supply.

FINETTA

Cartridge 35 mm; up to 36 exposures, 1x1½; 43-mm f/4 coated Finetar lens; shutter speeds from 1/25 to 1/100 sec., & B; built-in flash synchronization; double exposure prevention device; automatic film stop and exposure counter; optical eye-level finder; helical focusing; interchangeable lens mount; all-metal construction. Price, $29.95. Accessories available.
DIST., The Bennett Co.

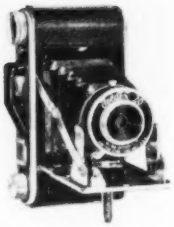
FOTON



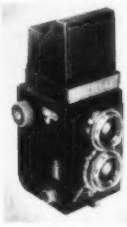
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 2-inch TH Amotal T-2.2 lens; screw mount; depth of field scale; focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; built-in synchronization; built-in eye-level finder; coupled rangefinder; built-in filter adapter; exposure counter; depth of field scale; exposure guide for flash gun; automatic film advance, either single exposure or rapid sequence, 11 shutter speeds; diochroic beam splitter. Price, $485 including tax; case, $23.95 and $33.95.
MFR., Bell & Howell Co.

FOLDEX 120

Roll film size 120 or 620; 8 exposures, 2¼x3¼; 105-mm Octvar lens; built-in eye-level viewfinder; shutter speeds, 1/50, B; built-in synchronization; accessory clip for flash unit; body release. Price, $18.75 including tax; case, $3.95; flash attachment, $3.95.
MFR., Pho-Tak Corp.

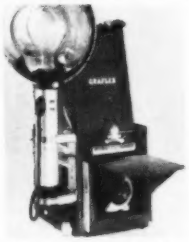


GRACEFLEX



Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; matched coated 80-mm Bessel f/3.5 lenses; gear coupled; shutter speeds 1/10 to 1/200 sec., & B; built-in synchronization; body shutter release; reflex ground-glass focusing; depth of field scale; built-in magnifier; tripod socket; cable release socket; neckstrap and eveready case. Price, $65.
DIST., A. G. Photo Distributors.

GRAFLEX SUPER D REVOLVING BACK

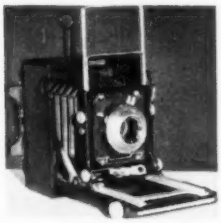


Sheet film, packs, 3¼x4¼, 4x5; single-lens reflex camera; features interchangeable film attachments and lensboards; focal-plane shutter with speeds from 1/30 to 1/1000 sec., T; built-in synchronization; automatic diaphragm; Ektalite Field lens; film-pack adapter included. Price of 4x5 model with coated 190-mm Ektar f/5.6 lens in automatic diaphragm, with pack adapter, $269 including tax; 3¼x4¼ model with coated 152-mm f/4.5 lens in automatic diaphragm, with pack adapter, $249, including tax. Accessories include case, lenses, filters, film attachments, flash unit, focusing panel, and lens shade.

SERIES B GRAFLEX-REVOLVING BACK

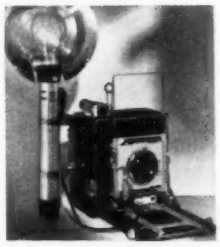
Sheet film, packs, 2¼x3¼; single-lens reflex camera; features interchangeable film attachments; focal-plane shutter with speeds from 1/10 to 1/1000 sec., T; Ektalite Field lens and film-pack adapter. Price, $129.50, with 127-mm coated Ektar lens with click stops. Accessories include lenses, flash unit, and film accessories.

CENTURY GRAPHIC



Sheet film, packs, 2¼x3¼; coated 103-mm Trioptar Anastigmat f/4.5 lens; Century self-setting shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization; collapsible wire frame finder; manual, scale, and groundglass focusing; film holder included; Graflok back; folding infinity stops; rising, tilting, and laterally shifting front. Price, with film holder, $109.50, including tax. Complete line of accessories available.

PACEMAKER SPEED GRAPHIC



Sheet film, packs, 4x5, 3¼x4¼, 2¼x3¼ sizes; feature interchangeable lensboards; focal-plane shutter with governed speeds from 1/30 to 1/1000 sec.; built-in synchronization; dual control rack-and-pinion focusing; selector switch to set body release for front and back shutter operation; tilting front with vertical and lateral shifts; drop bed; double extension bellows; interchangeable film attachments; folding infinity stops; rising front; 2¼x3¼ model fitted with Graflok back for use with roll-film holder as well as regular 2¼x3¼ film attachments. Prices depend on lens and shutter equipment. Accessories include flash, filters, film attachments, rangefinder, lenses, etc.

PACEMAKER CROWN GRAPHIC

Sheet film, packs, 4x5, 3¼x4¼, 2¼x3¼ sizes; feature the same advantages as the Pacemaker Speed Graphics with exception of the focal-plane shutter. Price depends on lens and shutter equipment. Accessories same as for Speed Graphic.

GRAPHIC VIEW II

Sheet film, packs, 4x5; equipped with 3¼x4¼ or 4x5 Graphic or Graflex backs; interchangeable lensboards; 15½-inch bellows draw; identical swings, tilts, and shifts on both front

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Ideal for action work or photo-studies . . . outdoors or indoors . . . the precision built CIRO-FLEX comes in five models (three with built-in flash). Each has coated lens; steel-welded body; field lens under ground glass for extra brilliance, magnifier and sports-finder in viewing hood. Yet three models are priced *below* $100! No wonder that CIRO-FLEX is one of America's most popular cameras . . . and a best-seller in the famous Graflex prize-winning line!

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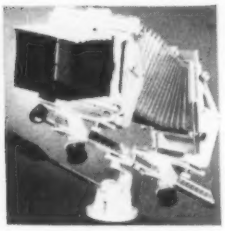
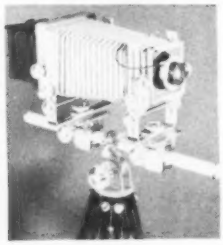


and back; adjustments made on optical axis; V-section aluminum bed; camera bed combined with pan-tilt head; spirit level; track locks; includes sheet film holder and case. Price, with any one of 4 backs and without lens, $145 including tax. Complete line of accessories available.

MFR., Graflex, Inc.

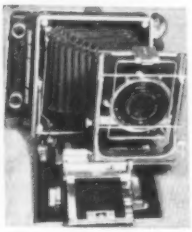
GROVER UNIVERSAL VIEW—4x5



Sheet film, packs, 4x5; optional lens equipment; 21" bellows extension; groundglass back focus; revolving back, all-metal construction; monorail bed, double extension bellows, front and rear focusing; calibrated groundglass with four-sided hood; 4x4 lens board. Price, $94.50; 5x7 with reversible wood back, $109.50 less lens; 8x10, with reversible wood back, $132.50 less lens; deluxe case, $16.95.

MFR., Burke & James, Inc.

HACON 23

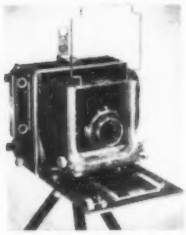


Sheet film, packs, 2¼x3¼; coated 105-mm Schneider Anastigmat f/4.5 lens in Compur shutter with speeds from 1 to 1/400 sec., B; delayed action; built-in synchronization; 9" bellows; eye-level and collapsible wire frame finders; manual scale, and groundglass focusing; available in two models: Technica model has revolving and tilting back; drop bed; geared rising lens board; tilting lens board and lateral movement; triple extension bellows, price, $195 plus tax; Standard model has all the above features with exception of revolving and tilting back, price, $169.50 plus tax. Accessories include Kalart rangefinder, Heiland flash synchronizer and guns.

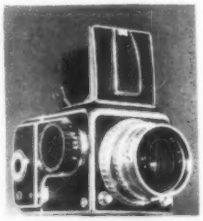
HACON 45

Sheet film, packs, 4x5; 135-mm f/4.5 coated Schneider Xenar lens in Compur Rapid Synchro Shutter, 1 to 1/400 sec., and B; delayed action timer; eye-level and collapsible wire frame finders; triple extension bellows; revolving and tilting back; groundglass focusing; drop bed; manual focusing scale; geared rising and tilting interchangeable lensboard; lateral lensboard movement with worm gear. Accessories include rangefinder and complete assortment of lenses. Price depends on selection of lens ordered with camera.

MFR., Haca Supplies.



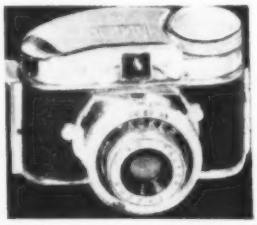
HASSELBLAD



Single-lens reflex camera using roll film size 120; 12 exposures, 2¼x2¼; coated 80-mm Ektar f/2.8 lens with bayonet mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1 to 1/1600 sec., B; built-in synchronization for all types of lamps; reflex focusing; exposure counter; depth of field guide; back detachable to permit sheet film use; body-type shutter release; compact size. Price, $535; several cases available, $15 and up.

DIST., Willoughby's.

HIT



Sub-miniature using special daylight loading rolls; 10 exposures, 14x14 mm; 20-mm Tacker f/4.5 lens; built-in eye-level finder; leather-over-metal construction; shutter settings, 1/25 sec., & B; weighs 83 grams. Price, $2.98 including tax.

DIST., General Photographic Supply Co.

IKONTA A

Roll film size 120; 16 exposures, 1⅝x2¼; same features as Ikonta C. Price, with coated 75-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/300 sec., $71; with Novar f/3.5 lens, $63; with Zeiss Tessar coated f/3.5 lens in Compur Rapid synchronized shutter with speeds up to 1/500 sec., $105. Eveready case, $10.

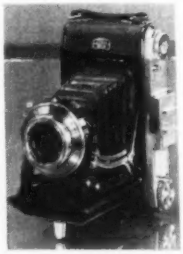
IKONTA IIB

Roll film size 120; 12 exposures, 2¼x2¼; coated 75-mm Novar f/3.5 lens in shutter with speeds from 1 to 1/250 sec., & B; delayed action; or 75-mm Zeiss Novar f/4.5 lens in Synchronized Prontor shutter with speeds from 1 sec. to 1/300 sec., & B; delayed action; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; shoe for waist level finder; eveready case. Price, with f/3.5 Novar, $78; f/4.5 Novar, $69; f/3.5 Zeiss Tessar in Synchronized Compur Rapid, speeds from 1 to 1/500 sec., $112. Eveready case, $10. Accessories include slip-on lenses, filters, lens shade, waist-level finder, etc.

IKONTA IIIB

Same features as Ikonta IIB, but with non-coupled rangefinder. Price, with coated 75-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/300 sec., with self-timer, $82; with coated 75-mm Novar f/3.5 lens in Prontor shutter, $94; with coated 75-mm Zeiss Tessar f/3.5 lens in Compur Rapid shutter, speeds to 1/500 sec., $126. Eveready case, $10.

IKONTA IIC



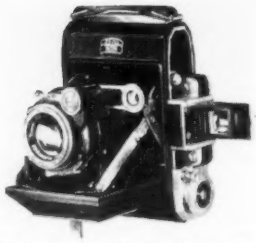
Roll film size 120; 8 exposures, 2¼x3¼; Prontor shutter, speeds from 1 to 1/250 sec., & B.; delayed action timer; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; body release; eveready leather case. Price, with 105-mm coated Novar f/4.5 lens, $70; with coated Novar f/3.5 lens in Compur Rapid shutter, $86; with f/3.5 Zeiss Tessar in synchronized Compur Rapid shutter with speeds to 1/500 sec., $136. Prices include tax. Waist-level finder, slip-on lenses, filter, lens shades among accessories. Eveready case, $10.

IKONTA IIIC

Same features as Ikonta IIC, but with non-coupled rangefinder. Price, with coated 105-mm Novar f/4.5 lens in Prontor shutter, speeds to 1/250 sec., with self-timer, $88; with coated 105-mm Novar f/3.5 lens in Prontor shutter, $106; with coated 105-mm Zeiss Tessar lens in Compur Rapid shutter, speeds to 1/500 sec., with self-timer, $150. Eveready case, $10.

SUPER IKONTA A

Roll film size 120; 16 exposures, 1⅝x2¼; coated 75-mm Zeiss Tessar f/3.5 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; coupled rangefinder; depth of field guide; automatic shutter lock; body release; eveready leather case. Price, $162. Eveready case, $10. Accessories include slip-on lenses, filters, lens shade, etc.



SUPER IKONTA B

Roll film size 120; 11 exposures, 2¼x2¼; coated 80-mm Zeiss Tessar f/2.8 lens; depth of field scale; synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; built-in synchronization; delayed action timer; eye-level finder; coupled range- and view-finder in one window; film locking device; shutter lock; body release; waist finder accessory shoe; eveready leather case, $12. Price, $236. Accessories same as Super Ikonta A.

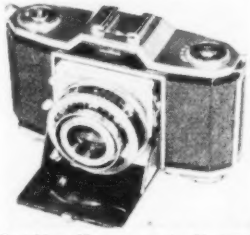
SUPER IKONTA C

Roll film size 120; 8 exposures, 2¼x3¼; same features as Super Ikonta A. Price, with coated Zeiss Tessar f/3.5 lens in synchronized Compur Rapid shutter with speeds up to 1/500 sec., $186. Eveready case, $12.

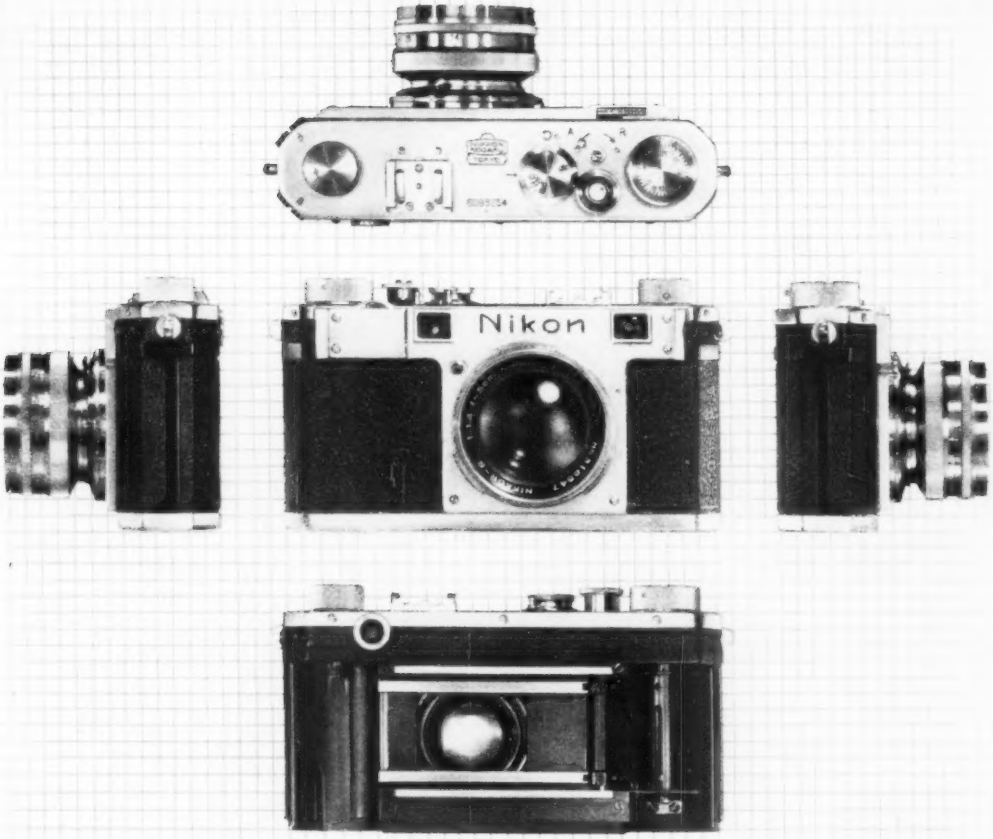
SUPER IKONTA BX

Same as Super Ikonta B, but takes 12 exposures, and has a built-in ASA calibrated photoelectric exposure meter. Price, $281; eveready case, $12.

IKONTA 35



Cartridge 35 mm, up to 36 exposures, 1x1½; coated 45-mm Zeiss Tessar f/2.8 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; scale focusing; exposure counter; depth of field guide; eveready leather case. Price with Tessar, $120; with 45-mm Zeiss Novar f/3.5 lens in Prontor Synchro shutter, with speeds from 1 to 1/300 sec., & B; delayed action; built-in synchronization, $78; eveready case, $11.



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NIKON

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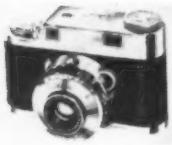
IKOFLEX IIA

Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Zeiss Tessar f/3.5 lens; depth of field scale; synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; delayed action; extra bright reflex finder of combined magnifier and Fresnel grating; focusing magnifier; automatic shutter lock; body release; leather eveready case. Price, $176. Accessories include slip-on lenses, filters, lens shades, etc.; eveready case, $12.

DIST., Carl Zeiss, Inc.

ILOCA II-A



Cartridge 35 mm; up to 36 exposures, 1x1½; 45-mm f/3.5 coated Ilitar lens; Prontor VS shutter, 1 to 1/300 sec., & B; delayed action timer; built-in flash synchronization; optical combination rangefinder and viewfinder; automatic exposure counter; film advance lock. Price, $87; eveready case, $8.50.

ILOCA I-A

Same as above, but with coated 45-mm f/2.9 Ilitar lens and no rangefinder; manual focusing. Price, $57.50; with Vario shutter, 1 to 1/200 sec., & B, and built-in flash synchronization, $44; eveready case, $8.50.

DIST., Ercona Camera Co.

ISING ISOFLEX

Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; 8-mm Ising Achromat f/7.7 lens; Ising shutter, I & T speeds; built-in synchronization; reflex focusing; double exposure prevention. Price, $18.95; case, $5.55.

DIST., Delta Foreign Sales Corp.

KALART

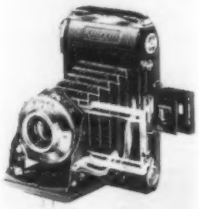
Sheet film, filmpacks, 3¼x4¼; press-type camera; 127-mm coated Raptar f/4.5 lens; Rapax X shutter, speeds, 1 to 1/400 sec., T & B; built-in synchronization; eye-level finder; manual, groundglass, and scale focusing; coupled rangefinder with one window for range- and viewfinders; features include, 2 built-in flash receptacles, built-in Focuspot, electric shutter release; dual finder windows; built-in compartment for batteries. Price, including flash reflector, $295.00.

MFR., The Kalart Co.

KINAX NORMANDY

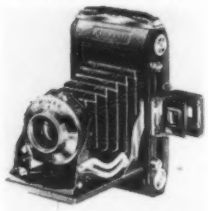
Rollfilm, size 620; 8, 12, or 16 exposures, with proper masks; coated 100-mm Berthiot Bellor f/3.5 lens; depth of field scale; Kinax set and release shutter, speeds 1 to 1/350 sec., & B; built-in synchronization; built-in self-timer; mirrored eye-level finder; manual focusing; double exposure prevention; parallax adustment; 2 film masks; tripod socket; cable release socket; all-metal construction. Price, $76; sheath case, $6.95.

KINAX ARDENNES



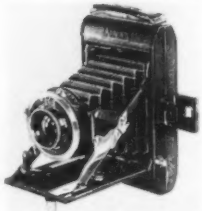
Same as above, except with coated 105-mm Berthiot Special f/4.5 lens and optical eye-level viewfinder. Price, $57.50; sheath case, $6.95.

KINAX RIVIERA



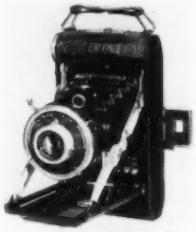
Similar to above, but takes only 8 pictures; coated 105-mm Berthiot Kinn f/4.5 lens; Kinax set and release shutter, speeds to 1/350 sec., & B; built-in synchronization; built-in self-timer; optical eye-level viewfinder; parallax adjustment; body shutter release. Price, $49.95; sheath case, $6.95.

KINAX PROVENCE



Similar to above, with same lens and shutter, but without parallax adjustment or self-opening viewfinder. Price, $39.95; sheath case, $6.95.

KINAX ALSACE



Similar to above, but with coated 100-mm Berthiot Kior f/6.3 lens in Kinax single-action shutter, speeds 1/25 to 1/100 sec., & B; built-in synchronization; manual focusing; optical eye-level and waist-level viewfinder. Price, $28.75; sheath case, $6.95.

KINAX BABY

Similar to above, but with coated, fixed focus meniscus lens; 3 apertures; Kinax shutter with I & B speeds; built-in synchronization for Class M lamps. Price, $22.50; sheath case, $6.95.

DIST., Raygram Corp.

KINE EXAKTA V

Cartridge 35 mm; 36 exposures, 1x1¼; single-lens reflex; coated 80-mm Zeiss Biotar f/2 lens; focal-plane shutter, 12 to 1/1000 sec., T & B; built-in synchronization; eye-level and waist-level finders; eye-level prismatic reflex focusing aid available; reflex focusing; depth of field guide; eveready case; exposure counter. Price, $313.75, inc. tax. With f/2 coated Xenon, $227.50; with f/3.5 coated Tessar, $199.50; with f/1.9 Meyer Primoplan, $240. Penta-Prism focusing aid, $68.50, inc. tax. Complete line of accessories including wide-angle and telephoto lenses.

DIST., Exakta Camera Co.

KING PENGUIN

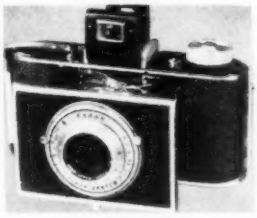
Rollfilm, size 120; 8 exposures, 2¼x3¼; 100-mm Orac f/11 meniscus lens; Penquin single-action shutter, speeds 1/30 sec., & B; built-in synchronization; eye-level viewfinder; fixed focus. Price, $19.98; sheath case, $5.50.

DIST., General Photo Supply Co.

KODAK DUAFLEX II

Roll film size 620; 12 exposures, 2¼x2¼; two lens reflex; 75-mm fixed focus Kodet f/15 or 72-mm f/8 Kodar taking lens in focusing mount; viewing lens has wide aperture; 1 and B shutter speeds; waist-level viewfinder; built-in synchronization; plunger-type body release. Price with Kodet lens, $14.50, including tax. Price with Kodar lens, diaphragm adjustment, focusing mount, and double exposure prevention device, is $22.30. Accessories include Flasholder and slip-on lenses.

KODAK FLASH BANTAM f/4.5



Roll film size 828; 8 exposures, 28x40 mm; 48-mm coated Kodak Anastar f/4.5 lens; shutter speeds from 1/25 to 1/200 sec., T & B; built-in synchronization; lens mount focusing; eye-level finder. Price, $56.00. Accessories: filed case, flasholder, service rangefinder, slip-on lenses, accessory clip, etc.

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Sheet film, packs, 4x5; all-metal construction; all swings on optical axis; 12-degree horizontal swings front and back; 30-degree vertical swings front and back; rising and falling front goes up 3 inches, down 1 inch; ⅞-inch horizontal slide front and back; back revolves 360 degrees; click stops at all neutral positions; monorail bed; 15-inch bellows draw; integral back spirit level. Price, inc. carrying case, 1 Graphic film holder, less lens, $145. Complete line of lenses, shutters, and accessories available.

KODAK MEDALIST II

Roll film size 620; 8 exposures, 2¼x3¼; 100-mm coated Kodak Ektar f/3.5 lens; infrared index mark; depth of field scale; Flash Supermatic shutter with speeds from 1 to 1/400 sec., T & B; eye-level finder

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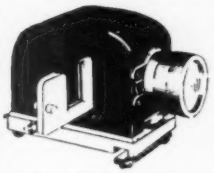

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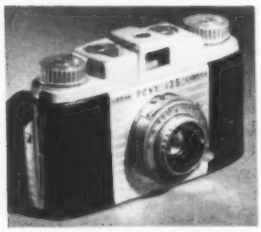
with parallax-correcting frame; helical focusing by scale or coupled rangefinder; exposure counter; film-type indicator; double-exposure prevention lock. Price, $304.75 including field case and tax. Accessories include field case, flasholder, accessory back to handle sheet film, plates, and packs; extension units, copying assembly, etc.

KODAK PONY 828

Roll film size 828; 8 exposures, 28x40 mm; coated 51-mm Kodak Anaston f/4.5 lens; depth of field scale; Kodak Flash 200 shutter with speeds from 1/25 to 1/200 sec., B; built-in synchronization; built-in eye-level viewfinder; lens mount focusing; film-type indicator; body release; release lock prevents exposure until lens barrel is in taking position. Price, $31.15 including tax. Complete line of accessories.

KODAK PONY 135



Cartridge 35 mm; up to 36 exposures, 1x1½; 51-mm f/4.5 coated Kodak Anaston lens; depth of field scale; Kodak Flash 200 shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; automatic film stop; automatic exposure counter; optical eye-level finder; lens mount focusing; body shutter release; release lock prevents exposure until lens barrel is in taking position; film-type indicator. Price $35.75, inc. tax. Complete line of accessories available.

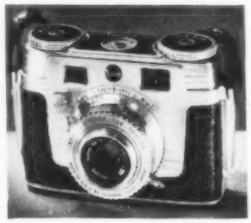
KODAK REFLEX II

Roll film size 620; 2-lens reflex; 12 exposures, 2¼x2¼; coated 80-mm Kodak Anastar f/3.5 taking and viewing lenses, gear coupled; Flash Kodamatic shutter with speeds from 1/2 to 1/300 sec., T & B; built-in synchronization adjustable for Class F & M lamps; distance and depth of field scales; eye-level and waist-level finders; reflex focusing; Kodak Ektalite Field lens under groundglass; mask for 828 film; automatic film stop; film-type indicator; field case with removable front. Price, $161, including tax.

KODAK RETINA IIA

Cartridge 35-mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Retina-Xenon f/2 lens; depth of field scale; infrared infinity mark; Synchro-Compur shutter, speeds 1 to 1/500 sec., & B; built-in synchronization; leather bellows; coupled rangefinder; combined window for rangefinder and viewfinder; exposure counter; automatic shutter cocking; double exposure prevention; rapid film wind lever. Price, $164.10, inc. tax; leather case, $10.50.

KODAK SIGNET 35



Cartridge 35 mm; up to 36 exposures, 1x1½; 44-mm f/3.5 coated Kodak Ektar lens; depth of field scale; Kodak Synchro 300 shutter, 1/25 to 1/300 sec., & B; built-in flash synchronization; combined coupled rangefinder and viewfinder; exposure guide; automatic exposure counter; film-type indicator; automatic double exposure prevention. Price, $92.50, inc. tax; case, $8.50. Complete line of accessories available.

KODAK TOURIST II ECONOMY MODELS

Rollfilm size 620; 8 exposures, 2¼x3¼; built-in synchronization; eye-level viewfinder; camera bed shutter release. Kodet model has 88-mm Kodet f/12.5 fixed focus lens with stops to f/32 in flash Kodon shutter, speeds 1, B & T; price, $26.25. F/6.3 model has 105-mm Kodak Anaston f/6.3 lens in Kodak Flash 200 shutter, speeds from 1/25 to 1/200 sec., & B; price, $46.25. Accessories include field case, filters, lens hoods, flash holders.

KODAK TOURIST II DE LUXE MODELS

Same basic features as Economy Models, but with depth of field scale, exposure computer, and long base Scopesight Finder. Price, with Luminized 105-mm Kodak Anaston lens in Flash Kodamatic shutter speeds 1/10 to 1/200 sec., T & B, $72.55; with Luminized 101-mm Kodak Anastar f/4.5 lens in Synchro-Rapid 800 shutter, speeds 1 to 1/800 sec., & B, $97.40. Accessories include complete line of lens attachments and Kodak Tourist Adapter Kit for 4 different film sizes inc. 828 Kodachrome.

MFR., Eastman Kodak Co.

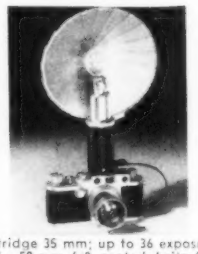
KONAN

Sub-miniature; 25 exposures on 16-mm film; coated 1-inch Kokker f/3.5 lens; slide shutter, speeds 1/25 to 1/250 sec., T & B; built-in flash synchronization; eye-level viewfinder; fixed focus; removable filter; expos-

ure counter; zipper pouch. Price, $34.95 inc. case.

DIST., Spiratone.

LEICA IIIf



Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/2 coated Leitz Summitar lens; depth of field scale; screw mount (interchangeable); focal plane-shutter, speeds from 1 to 1/1000 sec., T & B; built-in adjustable flash synchronization for any focal-plane type flash lamp, or any zero delay electronic flash unit, at all speeds; automatic synchronizing dial; eye-level optical finder; coupled rangefinder; exposure counter; automatic shutter cocking with film advance; accessory shoe clip. Price, $384.20, inc. tax; eveready case, $12.30; Leitz flash unit for Model IIIf, with cord, $24, inc. tax. Complete line of accessories is available, including interchangeable lenses.

LEICA IIf

Similar to IIIf; up to 36 exposures. 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount (interchangeable); infrared infinity mark; depth of field scale; focalplane shutter with speeds from 1/30 to 1/500 sec., B; built-in flash synchronization; built-in eye-level finder; helical focusing; coupled rangefinder; exposure counter; depth of field guide. Price, $209.10 including tax; eveready case, $12.50. Equipped with coated 50-mm Summitar f/2 lens, $295.80, inc. tax; with Summaron 35-mm f/3.5 lens, $251.60, inc. tax.

LEICA Ic

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1/30 to 1/500 sec., B; eye-level finder; helical focusing; eveready case; exposure counter; depth of field guide; accessory clip. Price $136, inc. tax.

DIST., E. Leitz, Inc.

LEOTAX D4

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/1.5 coated Nikkor lens; screw mount (interchangeable); depth of field scale; focal-plane shutter, speeds 1 to 1/500 sec., T & B; built-in flash synchronization; exposure counter; optical eye-level finder; coupled rangefinder focusing; leather eveready case. Price, $355 inc. tax. Also available with 50-mm f/3.5 similar lens, $229, inc. tax. Complete line of accessories available.

DIST., Cinema Products.

LEOTAX DIII

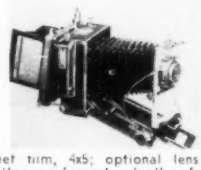
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Similar f/2 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; automatic film stop; double exposure prevention device; exposure counter; eveready case. Price, $195 including tax; with coated 50-mm Similar f/3.5 lens, $135.

SEMI LEOTAX

Roll film size 120; 16 exposures 4½x6 cm; 75-mm Wester f/3.5 lens in Konan Rapid shutter with speeds from 1 to 1/200 sec., T & B; eye-level finder; accessory clip. Price, $42.50 including case and tax.

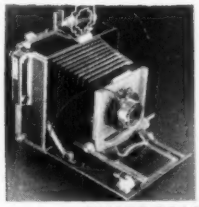
DIST., General Photographic Supply Co.

LINHOF SUPER TECHNIKA 4x5



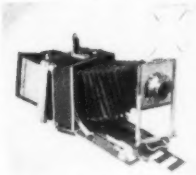
Sheet film, 4x5; optional lens and shutter equipment; depth of field scale; groundglass back; triple extension track; maximum leather bellows extension of 17 inches; drop bed; rising, falling, tilting, swinging, shifting front; tilting, swinging, revolving, interchangeable back; two spirit levels; eye-level and collapsible wire frame finders; focusing scale; all-metal construction. Price, $299.75, less lens, inc. tax. Accessories include Multifocus optical viewfinder, 4x5 Graflex type back, 9x12 cm back, utility case, and interchangeable lenses all coupled to Multifocus rangefinder.

LINHOF SUPER TECHNIKA 5x7



Same features and details as Super Technika 4x5, but with 23-inch maximum and 4-inch minimum bellows draw. Price, less lens, $449.75; fabrikoid covered wooden compartment case, $30. Accessories available include 4x5 reducing back.

LINHOF TECHNIKA IIIB, 4x5

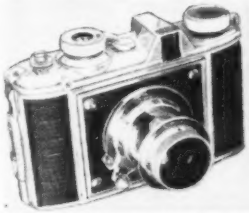


Identical to Super Technika 4x5 in features and details, but without rangefinder. Price, less lens, $224.75.

LINHOF SUPER TECHNIKA 2¼x3¼

Sheet film, packs, 2¼x3¼; rollfilm, size 120, with adapter; press-view camera; each camera equipped with 3 lenses—65-mm Schneider Angulon f/6.8 wide-angle, 105-mm Schneider Xenar f/3.5 normal, and 180-mm Schneider Tele-Xenar f/5.5 telephoto, all coated; all lenses are in Synchro Compur MX fully synchronized shutters, speeds 1 to 1/500 sec., & B; depth of field guide for each lens; coupled rangefinder acts for all three lenses on one cam, which is supplied; groundglass and scale focusing; parallax correction for all lenses; automatic distance scale for all lenses; combined window for rangefinder and viewfinder; swinging, tilting, revolving back; tilting, rising, falling front; triple extension bellows, maximum draw 13 inches, minimum draw 2½ inches; drop bed; multifocus rangefinder built in. Price, with all three lenses, $575. Accessories include case and 120 rollfilm holder.
DIST., Kling Photo Supply Corp.

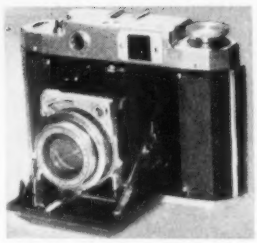
LYNX



Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Berthoit Anastigmat f/3.5 lens; focal plane shutter, speeds from 1/25 to 1/500 sec., T & B; delayed action; eye-level finder; helical focusing. Price, with eveready case, $135. Accessories include interchangeable lenses, filters, lens shades, etc.
DIST., General Photographic Supply Co.

MAMIYA

Roll film size 120; 12 exposures 2¼x2¼; coated Xenar-type f/3.5 lens;



shutter, speeds from 1 to 1/500 sec., T & B; built-in synchronization, eye-level finder; coupled single-window-type rangefinder; exposure counter; hyperfocal distance table; leather case included; automatic film transport; double exposure prevention device; automatic indicator; focusing arrangement moves the film plane within the camera while the lens remains stationary. Price, $95. Accessories include auto-up unit, allowing use of rangefinder to 24 inches, $9.95; flash unit, $9.95; three filters and lens shade, with case, $9.95.

MAMIYA SUPER-16

Sub-miniature, using cartridge 16-mm film; 25-mm f/3.5 coated lens; set-and-release shutter, speeds from ½ to 1/200 sec. and B; built-in flash synchronization; exposure indicator; built-in medium-yellow filter; automatic coupled film advance and shutter cocking; cable release socket; manual focusing with lever; eye-level finder. Price on request.
DIST., Baco Accessories Co.

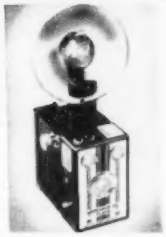
MAMIYAFLEX AUTOMATIC

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 80-mm f/3.5 coated Zuiko lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; groundglass reflex and eye-level focusing; exposure counter; automatic operation; single knob for shutter cocking and film advance; magnifier in hood; eveready case; lens cap. Price, $175, inc. tax. Complete line of accessories available.

MAMIYAFLEX JUNIOR

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 80-mm f/3.5 coated Neocon lens; depth of field scale; Compur Rapid shutter, 1 to 1/300 sec., & B; built-in flash synchronization; groundglass reflex focusing; automatic film stop and exposure counter; cable release socket; eveready case; lens cap. Price, $109.50, inc. tax. Complete line of accessories available.
DIST., Cinema Products.

MARKSMAN 120 FLASH

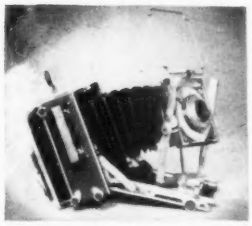


Rollfilm size 120; 8 exposures, 2¼x3¼; meniscus lens; glass enclosed shutter opening; single-action shutter; I & T shutter settings; built-in flash synchronization; flash unit; vertical and horizontal waist-level finders; all-metal construction. Price, $7.95, inc. tax. Same camera, but without built-in synchronization and flash unit, $5.95, inc. tax.
MFR., Pho-Tak Corp.

MASTER REFLEX

Single-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; f/3.5 coated Meyer Primotar lens in screw mount; depth of field scale; focal-plane shutter, 1 to 1/1000 sec., T & B; delayed action timer; built-in flash synchronization; eye-level and waist-level finders; groundglass reflex focusing; exposure counter; double exposure prevention device; all-metal construction. Price, $185, inc. tax. Complete accessories available.
DIST., Ercona Camera Corp.

MERIDIAN 45C

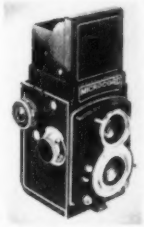


Sheet film, packs, 4x5"; optional lens equipment; press-view type camera; collapsible wire frame type finder; groundglass back; coupled rangefinder, rising and falling front; swing and tilts on lens board and back; 16" bellows extension. Price, $225.
MFR., Meridian Instrument Corp.

MERCURY II

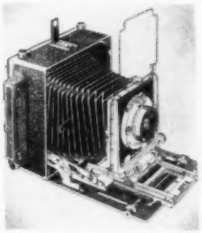
Cartridge 35 mm; 65 exposures, ¾x1; 35-mm coated anastigmat triplet f/2.7 lens; depth of field scale; rotary metal shutter, speeds from 1/20 to 1/1000 sec., T & B; built-in synchronization; eye-level finder; scale and helical focusing; exposure counter; depth of field guide; exposure guide; Film minder. Price, $82.90 including tax; eveready case, $7.25. Available accessories include, interchangeable lenses, filters.
MFR., Universal Camera Corp.

MICROCORD



Twin-lens reflex; rollfilm, size 120; 12 exposures, 2¼x2¼; matched coated 75-mm Ross Xpres f/3.5 lens; depth of field scale, Compur type shutter, speeds 1 to 1/300 sec., T & B; built-in synchronization; reflex focusing; tripod socket; bayonet accessory mount; exposure counter; parallax correction. Price, $119.50; eveready case, $12.

MICRO-TECHNICAL 4x5 MARK VI



Sheet film filmpacks, 4x5; press-view camera; lens and shutter equipment optional; triple extension bellows; groundglass focusing; drop bed; wide-angle rack; rising, tilting, and shifting front; 4-way swing back, rotating 360 degrees. Price, less lens and shutter, $199.95. Accessories include focal-plane shutter, coupled rangefinder with interchangeable cam plates to match any lens.
DIST., General Photo Supply Corp.

MILLION PROUD

Folding rollfilm, size 120; 16 exposures, 2¼x1⅝; coated 75-mm Proud Special f/3.5 lens; screw mount; Proud shutter, speeds 1/25 to 1/250 sec., & B; built-in synchronization; eye-level viewfinder; eveready case. Price, with case, $24.95.
DIST., Spiratone.

MINOLTA 35

Cartridge 35 mm; up to 36 exposures, 1x1½; 45-mm coated Tessar-type f/2.8 lens, interchangeable; focal-plane shutter, speeds from 1 to

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- 65mm (2½") Schneider Wide-Angle ANGULON f6.8 Lens
- 180mm (7") Schneider Tele-Xenar f5.5 Lens
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- Parallax Correction Down to 3 Feet
- Triple-Extension Bellows for Macro
- Revolving Back • Swinging & Tilting Front & Back

Many Other Exclusive Features!

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Ctd. f4.5 Schneider Radionar Lens

Plus FREE: FLASHGUN & CASE

- Made in Germany • Eight Speeds from 1 to 1/250 Second • Built-in Self-Timer • Two Viewfinders • Takes Eight 2¼ x 3¼ or Sixteen 1½ x 2¼ Pictures per Roll • Body Shutter Release • Leather Carrying Handle

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CAMERA ONLY 43.00
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- 1½" Ctd. f3.2 Telephoto Lens

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PRAKTICA

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- Film Transport Winds Shutter
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- Instant Depth-of-Field Indicator

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11	ARGUS C-3, cf3.5*, RF, Flashgun, Case	69.50	57.50
9	BOLSEY B-2, cf3.2*, RF	73.50	59.95
5	BOLSEY C, cf3.2*, RF, twin-lens reflex	109.50	89.50
3	Kodak RETINA IIA, cf2 Xenon* MX Synch.	164.10	137.50
4	Kodak SIGNET, cf3.5* Ektar, RF	92.50	76.50
4	STEREO REALIST, cf3.5*, RF	159.00	139.50
8	Zeiss Ikon CONTESSA 35, cf2.8* Tessar, RF, built-in Exposure Meter, MX Synch.	214.00	149.50
5	Graflex CIROFLEX D, cf3.5* Alphax Shutter	87.90	72.50
4	Kodak TOURIST 800, cf4.5*	97.40	79.50
3	POLAROID, One-Minute Camera, Flash Shutter	89.75	79.50
10	CHRONOS Featherweight Exposure Meter	22.50	14.95
8	G.E. MASCOT	15.25	11.95
12	G.E. DW-68 ASA, Incident and Direct	21.80	17.50
11	G.E. PR-1 DeLUXE, Incident and Direct	29.25	21.75
9	Weston MASTER II	27.63	21.75
4	ARGUS 2 x 2 PB, 200 Watt Slide Projector	36.95	29.95
3	GOLDE REFLEX, 2¼ x 2¼ 300W, blower, case	86.50	69.50
3	Kodaslide TABLE VIEWER, 4x	49.50	41.95
2	LaBelle "500", blower, automatic feed	95.35	76.50
7	VIEWLEX V-33, blower cooled, 300W	63.00	44.50
3	Federal 135, f4.5 lens, condenser Enlarger	49.95	39.50
2	Simmon OMEGA D-2, Double Condenser, complete with 5¼" f4.5 lens	215.12	164.50
3	SOLAR 120, Condenser	66.50	52.50
2	B & H 134V (Sportster), cf1.9 8mm. Movie Camera	119.95	98.75
3	DeJur CITATION, cf1.9	89.50	74.50
4	Keystone OLYMPIC, cf2.5	78.00	62.50
5	Revere "55", cf2.8, fade-out device	69.50	52.50
3	Revere "88", cf2.5	72.50	56.50
2	B & H REGENT, Projectors, with Case	179.95	152.50
2	Keystone K-68, 750W	114.50	89.50
3	Keystone K-109, Splicer, Case	159.50	129.50
4	Revere 85, 500W, DeLuxe Case	124.50	89.50
3	Cine Kodak ROYAL MAG., cf1.9 16mm. Movie Cam.	176.25	146.50
2	Keystone A-12, Turret, cf1.9	151.00	118.50
2	Keystone A-82, 750W Projector	119.50	96.50
2	Keystone K-161, 750W, splicer, case	159.50	128.50

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REFLEX FLASH Outfit
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SYNCHRO FLASHGUN and LEATHER CASE!
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- Built-in Depth of Field Table

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35mm Single-Lens Reflex Camera
f2.9 COATED VICTAR LENS
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- Speeds to 1/500th Second
- Eye and Waistlevel Finder
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35mm CAMERAS

	New	Used
ARGUS C3, cf3.5* RF, Flashgun, Case	69.50	42.50
ARGUS 21, cf3.5*, Markfinder	62.10	39.95
BALDINETTE cf3.5* Schneider, Latest FULL-SYNCHRO M-X	49.95	39.95
BANTAM FLASH Kodak, cf4.5*	56.00	39.50
BANTAM SPC'L Kodak, f2, RF		99.50
BOLSEY B, cf3.2, RF	61.50	37.50
KAROMAT II, cf2* Xenon, RF	164.50	119.00
KODAK 35, f3.5, RF		39.50
MERCURY II, cf2.7		24.50
PONY 135 Kodak, cf4.5*	35.75	24.50
RETINA Kodak, f3.5		32.50
RETINA II Kodak, f2, RF		84.50
RETINA IIa, cf2* Xenon, RF, Rapid Wind	164.10	119.00
SIGNET 35 Kodak, cf3.5*, RF	92.50	64.50
STEREO REALIST, cf3.5*, RF	159.00	119.50
SUPER DOLLINA II, cf3.5* Tes. RF (List 149.50) SPECIAL	74.50	
VITO II, cf3.5* Compur	61.25	42.50

Average Shipping Weight 5 lbs.

LEICA AND CONTAX

	New	Used
LEICA D, f3.5 Elmar, RF		89.50
LEICA G, IIIA, f2 Summar, RF		132.80
LEICA IIIc, f2 Summitar, RF		189.50
LEICA IIF, cf2* Summitar, RF	297.50	
LEICA IIIF, cf1.5 Summarit, RF*	472.50	
CONTAX III, f2 Sonnar, RF		169.50
CONTAX III, f1.5 Sonnar, RF		198.50
CONTAX IIA, cf2 Sonnar, RF*	444.00	254.00
CONTAX IIA, cf1.5 Sonnar RF*	488.00	294.00
CONTAX S, cf2* Biogon, RF	475.00	238.00

Average Shipping Weight 5 lbs.

CONTAX ACCESSORIES

	New	Used
35mm cf2.8 Biogon	245.00	96.00
85mm cf2 Sonnar telephoto	292.00	132.50
135mm cf4 Sonnar telephoto	170.00	109.50
OMNICA DeLuxe Fitted Case for Contax, Lenses, Acces.	60.00	

Average Shipping Weight 3 lbs.

LEICA ACCESSORIES

	New	Used
35mm f3.5 Elmar wide angle		59.50
35mm cf3.5 Summaron w. ang	122.40	69.50
85mm cf1.5 Summarex tele	459.00	389.00
90mm cf4 Elmar tele, chrome	132.60	79.50
IMARECT Finder 35mm-135mm	42.00	29.50
FOCASLIDE Copy Attachment (state camera serial number)	39.33	29.50
OMNICA DeLuxe Case for Leica, Lenses, Accessories	60.00	

Average Shipping Weight 3 lbs.

TWIN LENS REFLEX CAMERAS

	New	Used
BOLSEY C, cf3.2*	109.50	79.50
ARGOFLEX E, cf4.5 Anst.		29.50
CIROFLEX E, cf3.5* Rapax	117.55	99.50
CIROFLEX F, cf3.2* Rapax	155.90	112.50
Kodak REFLEX, cf3.5		74.50
Kodak REFLEX II, cf3.5*, case	161.00	114.50
ROLLEICORD, f3.5		69.50
ROLLEICORD TWIN-BACK III, f3.5* Xenar, with case	149.50	107.50
AUTO ROLLEIFLEX, cf3.5* Zeiss Tessar		179.50
AUTO ROLLEIFLEX, LATEST, M-X Synch. cf3.5* Xenar	248.00	
AUTO ROLLEIFLEX, LATEST, M-X Synch. cf3.5* Tessar	268.00	
ROLLEIFLEX, f3.5 Tessar		79.50
Zeiss IKOFLEX I, f3.5 Zeiss		59.50
Zeiss IKOFLEX IIa — Latest, cf3.5* Tessar, with case	188.00	147.50
Zeiss IKOFLEX III, f2.8 Tessar		149.50

Average Shipping Weight 6 lbs.

SINGLE LENS REFLEX

	New	Used
2¼x3¼ GRAFLEX B, RB, cf4.5		79.50
3¼x4¼ GRAFLEX B, RB, f4.5		49.50
3¼x4¼ SUPER D GRAFLEX, RB, cf4.5* Kodak Ektar	246.75	179.00
4x5 GRAFLEX B, RB, f4.5 B/L		74.50
4x5 SUPER D GRAFLEX, RB, cf5.6* Kodak Ektar	267.25	199.00

Average Shipping Weight 6 lbs.

ROLL FILM CAMERAS

	New	Used
Ansco SPEEDEX, 2¼x2¼, cf4.5*	36.50	24.50
Ansco TITAN, 2¼x2¼, cf4.5*	69.95	39.95
Kodak MEDALIST, f3.5, RF		89.50
Kodak MEDALIST II, cf3.5*, RF	304.75	179.50
Kodak SPECIAL 620, f4.5		27.50
Kodak TOURIST, cf4.5*	71.00	49.50
POLAROID 1-Minute-Camera	89.75	64.50
Voigt PERKEO 2¼x2¼, c4.5*	49.50	
Voigt RANGEFINDER BESSA II, 2¼x3¼, cf3.5*	115.00	79.50
SUPER IKONTA B, f2.8 Tess, RF		99.50
SUPER IKONTA BX, f2.8, RF, built-in exposure meter		129.50
SUPER IKONTA C, 2¼x3¼, cf3.5*, RF	186.00	117.50
SUPER IKONTA BX cf2.8* RF, Exposure Meter (discontinued model) (Value 280.00) SPECIAL	189.50	

Average Shipping Weight 5 lbs.

16mm EQUIPMENT

MOVIE CAMERAS

	New	Used
B&H FILMO 70, f3.5 Cooke		49.95
B&H 70DA, 3-lens turret, f1.9		199.50
BOLEX H-16, latest, ½", cf1.9	282.25	179.50
CINE KODAK MAGAZINE, f1.9		99.50
REVERE MAG., cf2.5	157.50	98.50
REVERE MAG-TURRET, cf1.9	212.50	139.50
PROJECTORS		
AMPRO, 500 Watts		99.50
B&H FILMO 57, 400 Ft.		57.50

Average Shipping Weight 40 lbs.

8mm EQUIPMENT

MOVIE CAMERAS

	New	Used
B&H AUTO-8 MAGAZINE, cf1.9 1½" cf3.5 foc. lenses	255.90	179.50
B&H COMPANION, cf3.5		39.50
B&H SPORTSTER, cf2.5	89.95	59.50
CINE KODAK 8-25, f2.7		37.50
CINE KODAK RELIANT, cf2.7	82.30	57.50
CINE KODAK BROWNIE, cf2.7	43.30	29.95
DeJUR CITATION, cf2.5	77.50	46.00
KEYSTONE K-8, f1.9		49.50
Keystone OLYMPIC, cf2.5	78.00	49.50
Revere RANGER, cf1.9	99.50	64.50

Average Shipping Weight 12 lbs.

MOVIE PROJECTORS

	New	Used
AMPRO A8, 750 Watts		89.50
DeJUR "750", 750W	149.50	98.50
DeJUR "1000" 750W	167.50	114.50
KEYSTONE K-108, 750W	139.50	89.50
KEYSTONE R8, 500W	89.75	59.50
REVERE 85, 500W	124.50	67.50

Average Shipping Weight 30 lbs.

PRESS CAMERAS

	New	Used
2¼x3¼ BUSCH, cf4.5, Rapax Shutter	139.37	74.50
2¼x3¼ PACEMAKER CROWN, cf4.5* MX, RF	235.30	179.00
2¼x3¼ PACEMAKER SPEED, cf4.5* Optar	237.60	209.00
4x5 PACEMAKER CROWN, cf4.7, with Solenoid, Flashgun	223.74	149.00
4x5 BUSCH PRESSMAN, cf4.7, Kalart RF, Flash (Value 249.50) SPECIAL	149.50	

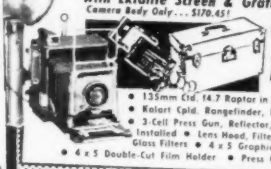
SLIDE PROJECTORS

	New	Used
ARGUS 2x2, PB, 100 Watt	29.95	19.95
Golde MASTER 3¼x4, 500W	76.65	54.50
KODALSIDE TABLE VIEWER	97.50	69.50
SKAN 2x2, 100W, blwr cooled	29.95	19.50
SKAN 2x2, 200W blwr cooled	39.95	24.95

Average Shipping Weight 10 lbs.

All items offered subject to prior Sale! Add estimated shipping costs;

Save $105.68! COMPLETE PRESS OUTFIT!
BRAND NEW! Latest Model! **4x5 PACEMAKER SPEED GRAPHIC CAMERA**
with Ektalite Screen & Graflok Back!
Camera Body Only... $170.45!
249.50
List $355.18!
Ship. Wt. 29 lbs.

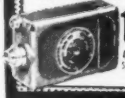


- 135mm Ctd. f4.7 Raptor in Rapax Shutter (used)
- Kalart Cpld. Rangefinder, Installed
- 3-Cell Press Gun, Reflector, Cord and Solenoid, Installed
- Lens Hood, Filter Holder & 4 Optical Glass Filters
- 4 x 5 Graphic Film Pack Adapter
- 4 x 5 Double-Cut Film Holder
- Press Outfit Carrying Case

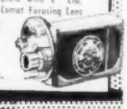
Save Up To $105.45! BRAND NEW!
Bell and Howell AUTOLOAD and AUTOMASTER
16mm MAGAZINE MOVIE CAMERAS with
- Five Shutter Speeds Including Slow-Motion
- Single-Frame Exposure Release
- Lock for Continuous Run
- Built-in Exposure Guide
- Instant Film Loading — No Threading

GUARANTEED for LIFE by BELL & HOWELL!

AUTOLOAD Camera with 1" Ctd. f1.9 B & H Super Comat Focusing Lens
129.50
List $214.95!
Ship. Wt. 10 lbs.



AUTOMASTER with Instant-Change 3-Lens Turret, Complete with 1" Ctd. f1.9 B & H Super Comat Focusing Lens
169.50
List 274.95!
Ship. Wt. 12 lbs.



Thousands Sold! 35mm Value ONLY AT PEERLESS!
BRAND NEW! German-Made!
RIVAL '35'
f3.5 Coated Ennagon Lens with Genuine Prontor-S Flash Shutter
Worth $50.00 or More!
32.50 POSTPAID

- Fast, Color Corrected Anastigmat Lens
- Nine Shutter Speeds, 1 to 1/200 Sec., & "B"
- Perfect for Black/White or Full Color
- Built-in Automatic Self-Timer
- Built-in Depth of Field Table
- Precision Made in Western Germany

Cowhide Eveready Case with Chrome Trim 6.95
Clip-on Flash Gun, Fits Rival Accessory Clip 7.95

SYMBOLS: RF Coupled Rangefinder ¢ Coated Lens * Flash Shutter

All Items Offered Subject To Prior Sale! Add Estimated Shipping Costs; We'll Refund Every Penny Not Used. If You Prefer C.O.D. Please Send 10% Deposit
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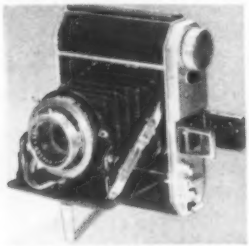
☐ Please send me your latest Booklet of Camera Bargains.

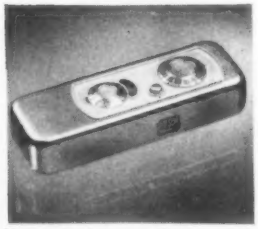
1/500 sec., T & B; built-in synchronization; eye-level finder; coupled single-window-type rangefinder; depth of field guide; exposure counter; hyperfocal distance table and carrying case are regular equipment. Also has automatic double-exposure prevention with automatic film transport and shutter wind. Price, $150. Accessories include filters and lens shade.

SEMI-MINOLTA



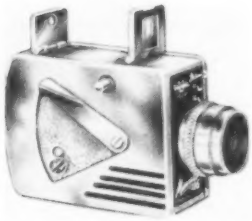
Roll film size 120; 16 exposures 1⅝x2¼; 75-mm coated Rokkor f/3.5 lens; Konan-Rapid shutter, speeds from 1 to 1/500 sec. & B; eye-level finder; helical focus; exposure counter; hyperfocal distance table; depth of field guide; automatic double exposure prevention and automatic film transport, eveready case. Price, $45. Accessories include filter, lens shade.
DIST., Baco Accessories Co.

MINOX



Picture size 8x11 mm; 50-exposures in daylight loading cartridge; camera size, ⅝x1x3"; automatic simultaneous shutter winding and film transport; exposure counter; 2 built-in filters, orange and green; focus from 8 inches to infinity; direct viewfinder with automatic parallax correction; lamellar shutter in front of lens with speeds from 1/2 to 1/1000 sec., T & B; coated 15-mm f/3.5 lens. Price, $123, inc. tax; leather case, $3.50; 50-exposure cartridge black and white, $1.01; 24-exposure cartridge color, $1.25; chain attachment, $3.
DIST., Minox, Inc.

MINUTE-16

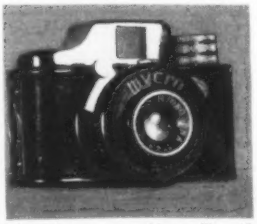


Sub-miniature; 14 exposures on double-frame 16-mm film; magazine loading; coated 1.3-inch achromat doublet f/6.3 lens; variable apertures; behind-the-lens shutter, preset at 1/50 sec.; eye-level finder; built-in flash synchronization; built-in lens shade; automatic film transport; automatic exposure counter with manual reset; all-metal construction; camera size, 2¾x1¾x1; black-and-white and color films available. Price, $9.95 including tax. Accessories include case, flash unit, etc.
MFR., Universal Camera Corp.

MYCRO MYRACLE II

Sub-miniature using special 16-mm roll film; 10 exposures, 14x14 mm; 20-mm anastigmat f/4.5 lens; stops down to f/11; rim-set shutter with speeds from 1/25 to 1/100 sec., B; built-in eye-level finder; fixed focus; eveready case. Price, $12.50 including tax. Accessories include tripod, lens shade, filters.
DIST., Mycro Camera Co., Inc.

MYCRO



Sub-miniature using 14-mm film; 10-exposures, ½x½ inch; 20-mm f/4.5 lens; Una shutter, 1/25 to 1/100 sec., & B; eye-level finder; fixed focus; eveready case. Price, $9.95 including tax. Black-and-white and color film available from the distributor.
DIST., Cooper Photographic Sales Company.

NETTAR IIC

Rollfilm size 120; 8 exposures, 2¼x3¼; f/6.3 coated Novar lens; Vario Synchro shutter, speeds to 1/200 sec., & B; built-in flash synchronization; waist-level finder; manual focusing. Price, $41; case, $7.70.

NETTAR IIB

Rollfilm size 120; 12 exposures, 2¼x 2¼; f/4.5 coated Novar lens; Pronto shutter, speeds to 1/200 sec., & B; built-in flash synchronization; delayed action timer; waist-level finder; manual focusing. Price, $49; case, $7.70.
DIST., Carl Zeiss, Inc.

NICCA III

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Nikkor f/2 lens; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; exposure counter; automatic film stop; double exposure prevention device; rewinding device; eveready case. Price, $215; with coated 50-mm Nikkor f/3.5 lens, $145.
DIST., General Photographic Supply Company.

NIKON

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/1.4 coated Nikkor anastigmat lens; click stops; depth of field scale; Nikon focal-plane shutter, 1 to 1/500 sec., T & B; built-in flash synchronization; combined coupled rangefinder and eye-level viewfinder; automatic exposure counter; eveready case; film cartridge; filter. Price, $349, inc. tax; complete accessories and choice of lenses available.
DIST., Nikon Camera Co., Inc.

OLYMPUS I

Cartridge 35 mm; about 20 exposures, 24x32 mm; coated 40-mm Zuiko f/3.5 lens; compur-rapid-type shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; exposure counter; double exposure prevention device; eye-level finder. Price, with carrying case, $49.50 including tax.
DIST., General Photographic Supply Co.

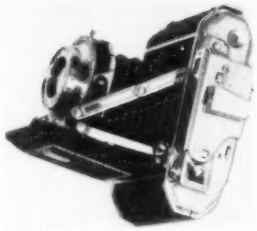
OPEMA

New synchro model. Cartridge 35 mm; 42 exposures, 24x32 mm, on standard roll; 45-mm f/2 coated Openar lens; depth of field scale; screw mount; focal-plane shutter, 1/25 to 1/500 sec., & B; combined coupled rangefinder and eye-level viewfinder. Price, $107.50; case, $6.50.
DIST., Sterling-Howard Corp.

PAXINA

Rollfilm, size 120; 12 exposures, 2¼x 2¼; coated f/7.7 Paxanar lens; 3-speed shutter; built-in synchronization; all-metal construction; tripod socket; telescoping front; eye-level viewfinder. Price, $13.95; case, $4.50; flashgun, $4.95.
DIST., Kine Camera Co.

PETRI MODEL 4



Roll film size 120; 12 exposures, size 2¼x2¼; 75-mm coated f/3.5 Anastigmat lens in Petri Compur shutter, speeds from 1 to 1/200 sec., T & B; delayed action; eye-level and waist-level finders; helical focusing; coupled rangefinder. Price, with eveready case, $48. Accessories include slip-on lenses, lens shade, filters, etc.
DIST., General Photographic Supply Co.

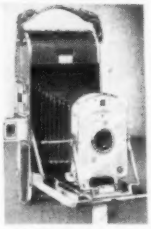
PENTA REFLEX

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 70-mm f/3.5 anastigmat lens; single-action shutter, 1/25 to 1/100 sec., & B; groundglass reflex focusing; body shutter release; double exposure prevention device; self-erecting viewer hood; built-in magnifier. Price, including tax and eveready case, $29.95.
DIST., Sterling-Howard Corp.

PETAL

Sub-miniature about size of 50-cent piece; uses special load; 6 exposures, 3/16" diameter; f/5.6 lens; single-action shutter set at 1/50 sec., & B; eye-level finder; fixed focus. Price, $9.95. Case, $1.
DIST., Mycro Camera Co., Inc.

POLAROID LAND MODEL 95



Develops its own pictures in one minute using special 8-exposure, 3¼x4¼ Polaroid Land film. Coupled lens shutter setting; built-in synchronization; eye-level finder; scale focusing

camera designed for Land I-step, one minute pictures. Film and camera matched for simplicity and versatility. Price, $89.75 including tax; carrying case, $14.95; master compartment case, $29.75.
MFR., Polaroid Corp.

PHOTAFLEX

Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; coated 80-mm Dolmer f/3.5 lens; depth of field scale; Prontor-type shutter, speeds 1 to 1/200 sec., & B; built-in synchronization; reflex focusing; tripod socket; cable release socket. Price, $39.95, inc. case.
DIST., General Photo Supply Co.

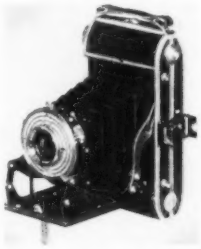
PRAKTICA VX

Single-lens reflex; cartridge 35 mm; up to 36 exposures, 1x1½; screw mount (interchangeable); depth of field scale; infrared infinity mark; focal-plane shutter, ½ to 1/500 sec., & B; built-in flash synchronization; eye-level and waist-level finders; groundglass reflex focusing; exposure counter; automatic shutter cocking with film advance. Lenses available: Zeiss Tessar f/2, f/2.8 and f/3.5. Prices on request.
DIST., A. G. Photo Dist. & Kine Camera Co.

PRAKTIFLEX SYNCHRO MODEL IIB

Cartridge 35 mm; 36 exposures, 1x1½; single-lens reflex; 50-mm f/2.9 coated Ludwig Victar lens; depth of field scale; focal-plane shutter, speeds from 1/25 to 1/500 sec., and B; built-in synchronization for Class FP lamps; eye-level and waist-level finders; reflex focus; exposure counter; eveready case. Price, $62.50 including tax; case, $6.50. Full line of accessories.
DIST., Sterling-Howard Corp.

PRESTO



Folding; rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; all-metal construction; leather bellows; eye-level viewfinder; manual focusing; built-in self-timer; tripod socket; cable release socket; body shutter release. Price, with coated f/4.5 lens in Vario flash shutter, speeds 1/25 to 1/200 sec., & B, $36.29; with coated f/4.5 lens in Pronto flash shutter, speeds 1/25 to 1/200 sec., & B, $38.70; with coated f/4.5 lens in Prontor-S flash shutter, speeds 1 to 1/250 sec., & B, $42.50; with coated f/4.5 lens in Prontor-S fully synchronized shutter, speeds 1 to 1/250 sec., & B, $45.95; with coated f/2.8 Steinheil lens in Prontor-S fully synchronized shutter, $45.95. Eveready case, $6.75; holster case, $5.50.
DIST., Camera Specialty Co., Inc.

PRIMAR REFLEX II

Roll film size 120; 12 exposures, 2¼x2¼; single-lens reflex; coated 105-mm Zeiss Tessar f/3.5 lens or 100-mm f/2.8 coated Meyer Trioplan lens; screw mounts (interchangeable); focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; delayed action; built-in synchronization; reflex focusing; exposure counter; depth of field guide; magnifier on reflex viewfinder. Price with Tessar, $285; with Meyer Trioplan, $265; case, $17.50. Accessories include wide-angle and telephoto lenses; flash unit; sheet film holder; extension tubes; adapters.
DIST., Ercona Camera Corp.

RECTAFLEX

Cartridge 35 mm; up to 36 exposures, 1x1½; single-lens reflex type; coated 50-mm Schneider Xenon f/2 lens; depth of field scale on lens mount; interchangeable lenses in bayonet mounts; focal-plane shutter with speeds from 1 to 1/1000 sec.; built-in flash synchronization; helical focusing; exposure counter; reflex viewer with Duo-Prism focuser in viewing system. Price, $250; with Beta f/3.5 coated lens, $235; with Schneider Xenon f/2 coated lens, $295; with Angenieux f/1.8 coated lens, $350; with Voigtlander f/1.5 coated lens, $475. All prices include tax.

RECTAFLEX JUNIOR

Same as above, but without Duo Focus system, and with shutter speeds up to 1/500 sec. Price, with coated f/3.5 Beta lens, $189.50; with coated Angenieux f/2.9 lens, $198.50; with coated Schneider Xenon f/2 lens, $219.50. Same accessories as for Rectaflex.
DIST., Director Products Corp.

REFLEKTA II

Roll film size 120 or 620; 12 exposures, 2¼x2¼; twin-lens reflex with coated 3-inch Meritar anastigmat f/3.5 lens; Velax shutter with speeds from 1/10 to 1/200 sec., B; built-in synchronization; waist-level finder; reflex focusing; depth of field guide; body release; double exposure prevention device; eveready case. Price, $69.50 including tax.
DIST., Ercona Camera Corp.

REGULA IA

Cartridge 35-mm; up to 36 exposures, 1x1½; coated 50-mm Steinheil Cassar f/2.8 lens; depth if field scale; Synchro-Compur, speeds 1 to 1/500 sec., & B; built-in synchronization; diaphragm and focusing scales visible from top; automatic film transport and exposure counter; double exposure prevention; built-in eye-level viewfinder; body shutter release; cable release socket; tripod socket. Price, $65.50; eveready case, $7.50.

REGULA IB

Same as above, but with Prontor synchronized shutter, speeds 1 to 1/300 sec., T & B. Price, $55.85; case, $7.50.

REGULA ID

Same as above, but with coated 50-mm Steinheil Cassar f/3.5 lens. Price, $48.50; case, $7.50.
DIST., Burleigh Brooks Co.

RICOHFLEX IIII

Roll film size 120; 12 exposures, 2¼x2¼; twin-lens reflex; 80-mm Ricoh anastigmat f/3.5 taking and viewing lens, gear coupled; Riken shutter speeds from 1/25 to 1/100 sec., B; built-in synchronization; eye-level and waist-level finders; reflex focusing; tubular film counter window; tripod socket. Price, $50.70, inc. case.
DIST., Photographic Imp. & Dist. Corp.

ROAMER II

Roll film size 120 or 620; 8 exposures, 2¼x3¼; 100-mm coated anastigmat triplet f/4.5 lens; Universal Synchromatic shutter, speeds from 1/25 to 1/200 second & B; built-in synchronization; eye-level and waist-level finders; helical focusing; accessory shoe clip. Price, $48 including tax; eveready case, $7.50.
MFR., Universal Camera Corp.

ROBOT II

Cartridge 35 mm; 50 exposures 1x1"; 37.5-mm Schneider Xenar f/2.8 lens; special Robot zonal focusing system; Robot focal-plane type shutter; speeds from ½ sec. to 1/500 sec.,

& B; built-in synchronization; eye-level finder; helical focus; exposure counter; depth of field guide; safety catch on release; interchangeability of lenses. Noted for rapid sequence photography. Price including F.E.T., $89.50; with 40-mm Schneider Xenon f/1.9 lens, $100; eveready case, $10. Complete line of accessories.

ROLLEICORD MODEL III

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; coated 75-mm Zeiss Triotar f/3.5 lens; depth of scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level, waist-level and sports finders; reflex focusing; automatic exposure counter and film-locking device; depth of field guide; cable release socket; built-in synchronization with plug-in unit on front panel; eveready case. Price, $139, inc. case and tax; with coated 75-mm Schneider Xenar f/3.5 lens, $149.50 inc. case and tax. Accessories include slip-on lenses, film adapters, filters, etc.

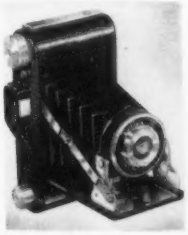
ROLLEIFLEX AUTOMATIC

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; coated 75-mm Zeiss Tessar f/3.5 lens; depth of field scale; Synchro-Compur shutter with speeds from 1 to 1/500 sec., B; delayed-action timer; built-in synchronization; eye-level and waist-level finders; large magnifier with cover plate encloses focusing hood; toggle-spring hinge on hood; reflex focusing; exposure counter; impossible to make double exposures; body release provided with cable release socket; eveready case with toggle-spring action; lens cap and cable release. Price, $285, inc. case and tax; with coated 75-mm Schneider Xenar f/3.5 lens, $265, inc. case and tax. Complete line of accessories available.

ROLLEIFLEX AUTOMATIC f/2.8 MODEL

Similar to the f/3.5 model; 80-mm Zeiss Tessar f/2.8 taking lens with viewing lens to match; Synchro-Compur shutter has speeds up to 1/500 sec. Price, including case, lens cap cable release, and excise tax, $345.
DIST., Burleigh Brooks Co.

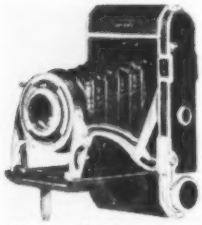
ROLLEX 20



Rollfilm size 120 or 620; 8 exposures, 2¼x3¼; Rollex lens; fixed focus;

single-action, non synchronized shutter; eye-level finder. Price, $14.95 including tax.
MFR., Pho-Tak Corp.

ROYER



Roll film size 620; 8 exposures, 2¼x 3¼; coated 105-mm Berthoit anastigmat f/4.5 lens in Prontor II shutter with speeds from 1/10 to 1/200 sec., B; delayed action; built-in synchronization; depth of field scale; built-in eye-level finder; manual focusing; double exposure prevention device. Price, $49.50. Accessories include slip-on lenses, filters, lens shade, etc.
DIST., General Photographic Supply Co.

RUBINA-SIXTEEN II

Sub-miniature; uses special 16-mm load; 30 exposures; 10x15 mm; coated 25-mm anastigmat f/3.5 lens; rim-set shutter with speeds from 1/25 to 1/100 sec., B; built-in eye-level finder; helical focusing; eveready case. Price, $29.95) including tax. Complete line of accessories available.
DIST., Mycro Camera Co., Inc.

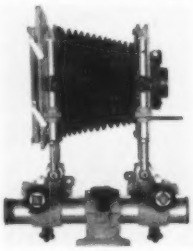
SEMFLEX OCTOMATIC S II

Twin-lens reflex; rollfilm, size 120; 12 exposures 2¼x2¼; matched coated 75-mm Berthiot f/3.5 lenses; depth of field scale; Orec shutter, speeds 1 to 1/400 sec., T & B; built-in synchronization; reflex focusing; self-erecting sports finder; exposure counter; lever film advance; cable release socket; tripod socket; double exposure prevention; plano-convex viewing screen. Price, $139.50; eveready case, $12.50.
DIST., General Photo Supply Co.

SHARP SHOOTER

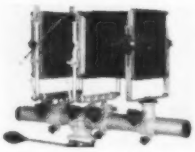
Roll film size 120; 8 exposures, 2¼x3¼; meniscus lens in rotary shutter; 1/40 second shutter speed and B; waist-level finder; all metal construction. Price, $4.95, including tax.
MFR., Pho-Tak Corp.

SINAR STANDARD



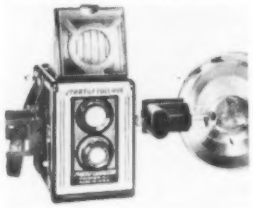
Sheet film, film packs, 4x5; view camera; takes lenses up to 5-inch diameter and almost any focal length; complete mobility of back and front; interchangeability of frames, bellows, optics, shutters, and standards; levelling and setting controls with rough positioning, fine adjustment and zero marks; optical base tubes on tripod head take flash batteries. Price, less lens and shutter, $349.50. Complete accessories available.

SINAR EXPERT



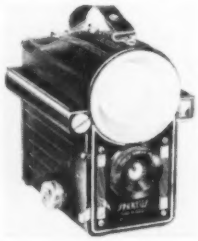
Sheet film, filmpacks, 4x5; view camera; will take almost any lens and shutter; complete control of mobility of back and front; universal use except 1-shot color work. Complete accessories available to meet any photographic need. Price depends on choice of equipment.
DIST., Heitz & Lightburn.

SPARTUS FULL-VUE



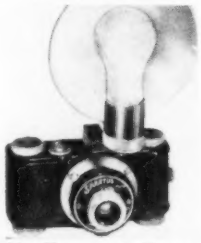
Roll film size 120; 12 exposures, 2¼x2¼; 100-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 second & T; reflex-type finder; fixed focus; shoulder strap. Price, $9.85 including tax; case, $3; flash unit, $2.80.

SPARTUS PRESS FLASH



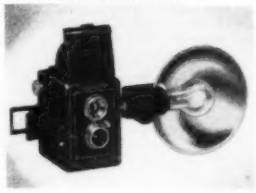
Roll film size 120; 8 exposures, 2¼x3¼; 120-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 second; built-in test unit for flash synchronization; eye-level finder; fixed focus; built-in flash reflector; with 4 flashbulbs. Price, $14.75 including tax; case available at $4.

SPARTUS 35F



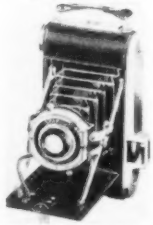
Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm achromatic f/7.7 lens; built-in synchronization; rotary-type shutter, speeds 1/60 sec. & T; built-in filter; exposure counter; eye-level finder; helical focus. Price, $14.65 inc. tax; eveready case, $4; flash unit, $2.80.

SPARTAFLEX



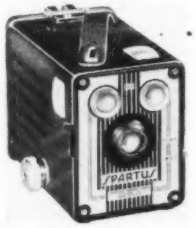
Roll film size 120; 12 exposures 2¼x2¼; 2-lens reflex; taking lens, 100-mm coated achromat f/7.7; rotary-type shutter; 1/60 sec. & T; depth of field scale; built-in synchronization; waist-level and sports-type finders; reflex focusing; depth of field guide; includes flash unit and eveready case. Price, $24.50 inc. tax.

SPARTUS 4 FOLDING CAMERA



Roll film size 120; 8 exposures, 2¼x 3¼; meniscus lens; 3 apertures, f/11, f/16, f/22; rotary-type shutter; built-in synchronization; built-in eye-level finder; fixed focus; I & B shutter settings. Price, $14.95 including tax; flash unit, $2.50; case, $2.50.

SPARTUS BOX CAMERAS 120



No. 20 model gives 8 exposures, 2¼x 3¼, on 120 roll film; No. 116 model gives 8 exposures, 2½x4¼, on 116 or 616 roll film; both have meniscus lens; 2 waist-level viewfinders; single-action shutter; I & T shutter settings; fixed focus. Price, No. 120, $5.89 including tax: No. 116, $6.95 including tax: case, $2.
MFR., Herold Mfg. Co.

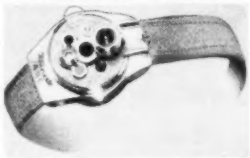
SPECTATOR 120 FLASH

Roll film size 120; 8 exposures, 2¼x 3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T settings; built-in synchronization; flash unit; built-in eye-level finder; body release; all-metal construction. Price, $7.95 including tax.
MFR., Pho-Tak Corp.

SPIRAFLEX

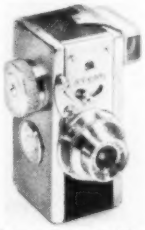
Twin-lens reflex; rollfilm size 120; 12 exposures, 2¼x2¼; 80-mm f/3.5 coated Ricoh Anastigmat lens; depth of field scale; Riken double-action shutter, 1/25 to 1/100 sec., & B; built-in flash synchronization; groundglass reflex focusing; wide field magnifier; all-metal construction; eveready case. Price, $39.95 including tax.
DIST., Spiratone.

STEINECK A.B.C.



Sub-miniature; uses special film magazine giving 8 exposures; coated 12.5-mm Steinheil f/2.5 lens; rotary focal plane shutter set at 1/125 sec.; fixed focus; wrist-level and eye-level finders; complete with strap to wear on wrist as watch. Price, $150.
DIST., Ercona Camera Corp.

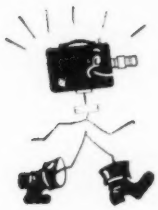
STEKY III



Sub-miniature using special magazine with 16-mm film; 24 exposures, 10x14-mm size; 25-mm Steinar Anastigmat f/3.5 coated lens; behind-the-lens shutter with speeds from 1/25 to 1/100 sec., & B; eye-level finder; fixed focus; automatic film counter; all metal construction; built-in filter. Price, $21.95, including tax; eveready case, $2.
DIST., Wilmot Sales Corp.

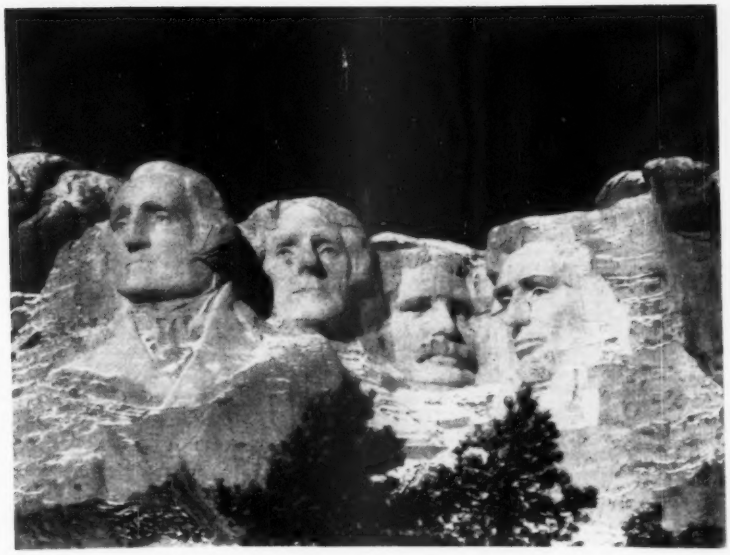
SUPER DOLLINA

Folding camera; cartridge 35-mm; up to 36 exposures, 1x1½; coated 50-mm Zeiss Tessar f/3.5 lens; depth of field



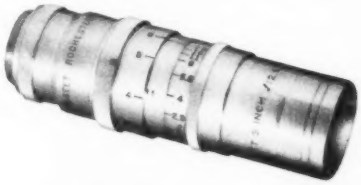
GIVE YOUR MOVIE CAMERA "SEVEN LEAGUE BOOTS"

WITH AN



Elgeet CINE-TEL® TELEPHOTO LENS

The Elgeet 38mm f:1.5 focusing Cine-Tel Telephoto Lens provides 3X magnification for 8MM cameras. Priced lower than any other lens of comparable speed and quality. **Only $68.35** (tax included).



The Elgeet 75mm f:2.9 focusing Cine-Tel Telephoto Lens for 16MM provides 3X magnification. **Only $63.45** (tax included).

The Elgeet 38mm f:3.5 fixed focus Cine-Tel Telephoto Lens affords 3X magnification for 8MM cameras. Simple to use and economical to buy, yet gives excellent results. **Only $29.75** (tax included).

There's nothing like an Elgeet Cine-Tel Telephoto Lens to give your movies an exciting change of pace—a flexibility that's really professional. Distant action, inaccessible scenery, camera shy children, tiny insects and flowers are brought up close with an Elgeet Cine-Tel to carry your camera to the subject. Their powerful magnification makes ordinarily difficult or impractical shots easy to take.

Leading optical designers and master craftsmen combine to make Elgeet Telephoto Lenses of the finest quality. All are fully color corrected and hard coated with "Elcote," your assurance of brilliant, sparkling pictures—sharp and clear over the entire field. And they have plenty of speed for the fastest action, even under adverse lighting conditions. Your dealer has the models shown on this page and many more for both 8 and 16MM cameras. See him today.

Send for your free copy of this guide to better pictures, "Exciting Movies With Elgeet Lenses."

Elgeet OPTICAL COMPANY, INC.
838 SMITH STREET • ROCHESTER, N. Y.

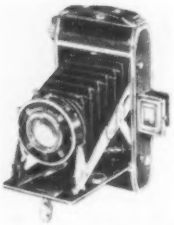
"Makers Of The World's Finest Lenses"

scale; screw mount; Compur Rapid shutter, 1 to 1/500 sec., T & B; eye-level viewfinder; coupled rangefinder; exposure counter; body shutter release. Price, $139.50, inc. case.
DIST., General Photo Supply Co.

SUPERFLEX

Twin-lens reflex; rollfilm, size 120; 12 exposures 2¼x2¼; coated 80-mm Bessel Anastigmat f/3.4 taking & viewing lenses; shutter speeds 1/10 to 1/200 sec., B; depth of field scale; reflex focusing; built-in flash synchronization; eveready case. Price, $65, inc. case.
DIST., A. G. Photo Distributors.

TELKA II



Roll film size 120; 8 exposures 2¼x3¼; 90-mm Manar Anastigmat f/3.5 lens in Prontor II shutter with speeds from 1 to 1/200 sec., T & B; delayed action self timer; built-in synchronization; eye-level finder; helical focusing; built-in automatic exposure calculator; body release. Price, $63.75 including tax.

TELKA I

Similar to above model; equipped with 110-mm Manar Anastigmat f/4.5 lens in Prontor I shutter with speeds from 1/25 to 1/125 sec., T & B. Price, $49.95 including tax; eveready case for Telka cameras, $7.
MFR., J. L. Galef & Son, Inc.

TOWER 49

Rollfilm size 120 or 620; 8 exposures, 2¼x3¼; optically ground coated lens; shutter synchronized for flash; I & B settings; body release; eye-level finder; accessory clip. Price, $18.50; case, $2.98.

TOWER 35

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/2 coated Nikkor lens; screw mount (interchangeable); focal-plane shutter, 1 to 1/500 sec., T & B; eye-level finder; coupled rangefinder; exposure counter; automatic film stop; double exposure prevention device; rewind device. Price with case, $175; with 50-mm f/1.4 lens and case, $298. Accessories include flash unit, interchangeable lenses.

TOWER 120

Roll film size 120; 8 exposures, 2¼x3¼; all-metal; 110-mm meniscus f/16 lens; leaf-type shutter with I & T settings; built-in flash synchronization; fixed focus; eye-level finder; detachable flash bulb. Price, $6.50; without built-in synchronization and flash unit, $3.95.

TOWER 51

Roll film size 120 or 620; 8 exposures, 2¼x3¼; Crystar lens; single-blade shutter with I & B settings; built-in synchronization; body release; accessory clip for flash unit; built-in eye-level finder. Price, $15.95 including tax; flash unit, $3.19; case, $2.29.

TOWER 50

Similar to 51 model but without built-in synchronization. Price, $11.95 including tax; case, $2.98.

TOWER 4x5

Press camera; sheet film and filmpack, 4x5; coated 127-mm Kodak Ektar f/4.5 lens; depth of field scale; Supermatic Synchro shutter, speeds 1 to 1/400 sec., & B; built-in synchronization; double extension leather bellows eye-level and wire-frame viewfinders; groundglass and rangefinder focusing; drop bed; rising, tilting and shifting lens standard; cable release socket; tripod socket. Price on request. Available with or without B-C flashgun.

TOWER 2¼x3¼

Same as above, but for sheet film and filmpacks, 2¼x3¼; with coated 101-mm Kodak Ektar lens in Kodak Synchro Rapid 800 shutter, speeds 1 to 1/800 sec., & B; built-in synchronization; other features same as above. Available with or without B-C flashgun. Price on request.
DIST., Sears, Roebuck & Co.

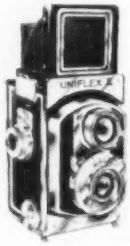
TRAVELOR 120

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zellar meniscus f/11 lens; single blade shutter with 1/50 second speed, & B; built-in synchronization; eye-level finder; fixed focus; body release. Price, $6.95 including tax; flash unit, $2.95.
DIST., Pho-Tak Corp.

UNIVERSAL VITAR

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm f/3.5 coated anastigmat lens; between the lens shutter, 1/25 to 1/200 sec., & B; built-in flash synchronization; exposure counter; exposure guide; built-in extinction-type exposure meter. Price, $41, including tax; eveready case, $7. Accepts standard accessories.

UNIFLEX I

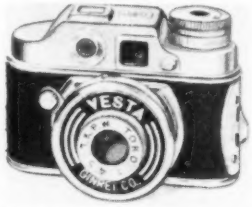


Roll film size 120 or 620; 12 exposures, 2¼x2¼; 75-mm coated anastigmat triplet f/5.6 lens; between-the-lens shutter, speeds from 1/25 to 1/200 sec., & B; built-in synchronization; eye-level direct vision finder; scale and reflex focusing; depth of field scale. Price, $55 including tax; eveready case, $9.95.

UNIFLEX II

Roll film size 120 or 620; 12 exposures, 2¼x2¼; 75-mm coated anastigmat triplet f/4.5 lens; depth of field scale; between-the-lens shutter, speeds from 1/10 to 1/200 sec., T & B; built-in synchronization; direct vision finder; scale and reflex focusing. Price, $75 including tax; eveready case, $9.95.
MFR., Universal Camera Corp.

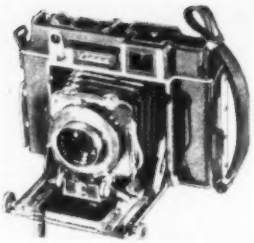
VESTA



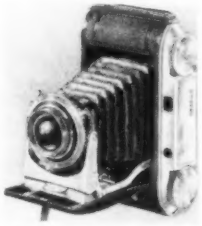
Sub-miniature using special 16-mm roll; 10 exposures; 20-mm Toko f/4.5 lens; Vario-type shutter with 1/50 sec. & B settings; built-in eye-level finder; fixed focus; eveready case. Price, $7.95 including tax.
DIST., Camera Specialty Co.

VIDAX

Roll film size 120 or 620; sheet film, film-packs, size 2¼x3¼; 8, 12 or 16 exposures on roll film, 2¼x3¼ down to 1⅝x2¼; interchangeable lens; choice of Wollensak Raptar, Kodak Ektar, or Zeiss Tessar; focal lengths from 3½ to 5 inches; lens speeds from f/3.5 to f/6.8; all lenses coated; shutter speeds from 1 to 1/400 sec., T & B; built-in synchronization; double-extension bellows; eye-level finder; scale and manual focusing; coupled rangefinder with one window for range- and viewfinders; variable rangefinder can be adjusted by knob to synchronize focus with lenses from 65 to 127 mm; interchangeable back compartments; built-in adjustable framing device to get 8, 12, or 16 exposures on 120 film. Price, without lens, $180; with 101-mm f/4.5 Raptar in Synchro shutter, $242; with 101-mm Ektar f/4.5 in Supermatic shutter, $235; with 105-mm Ektar f/3.7 lens, $265. All prices include tax. Accessories include adapter backs for sheet film and filmpacks.
MFR., Vidmar Camera Co.



VOIGTLANDER RANGEFINDER BESSA II



Roll film size 120; 8 exposures, 2¼x3¼; coated 105-mm Color-Skopar f/3.5 lens; depth of field scale; Synchro-Compur M-X shutter with speeds from 1 to 1/5000 sec., B; delayed action; full-flash synchronization; built-in eye-level finder; manual focusing; coupled, one-window-type rangefinder; depth of field guide. Price, $124.50; case, $9.50; with coated 105-mm Color Heliar f/3.5 lens in Synchro-Rapid MX shutter, $168.50.

VOIGTLANDER BESSA I

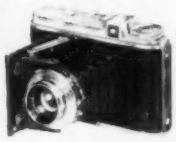
Rollfilm size 120; 8 exposures, 2¼x3¼, or 16 exposures, 1⅝x2¼; f/4.5 coated Vaskar anastigmat lens; depth of field scale; Prontor S shutter, 1 to 1/250 sec., & B; built-in flash synchronization; delayed action timer; body shutter release; optical eye-level finder; parallax control; oversized film winding knob; accessory clip. Price, $59.50; with f/3.5 coated Color-Skopar f/3.5 lens, $76.50; case, $9.50; with Color-Skopar f/3.5 lens in Synchro-Compur M-X shutter, $94.50.

VOIGTLANDER BRILLIANT V6

Roll film size 120; 12 exposures, 2¼x2¼; coated 75-mm Vaskar f/4.5 lens; depth of field scale; Prontor II shutter with speeds from 1 to 1/175 sec., T & B; delayed action; eye- and waist-level finders; reflex focusing; depth of field guide; built-in filter

safe; automatic exposure counter; automatic film stop. Price, $39.50; case, $8.50. With Voigtar f/6.3 coated lens in Singlo shutter; speeds 1/25 to 1/75 sec; B and T; built-in self-timer. Price, $29.50.

VOIGTLANDER PERKEO I



Similar to above, but with coated Vaskar f/4.5 lens in Pronto shutter, speeds 1/25 to 1/200 sec., & B; built-in synchronization; built-in self-timer; depth of field scale; tripod socket; cable release socket; body shutter release; telescopic viewfinder; automatic interlock device. Price, $49.50; case, $8.50.

VOIGTLANDER PERKEO II

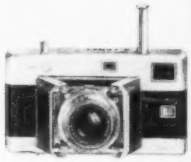
Rollfilm, size 120 or 620; 12 exposures, 2¼x2¼; coated Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter, speeds 1 to 1/500 sec., & B; built-in synchronization; double exposure prevention; exposure counter; cable release socket; tripod socket; telescopic viewfinder. Price, $83; case, $8.50.

VOIGTLANDER PROMINENT

Cartridge 35-mm; up to 36 exposures, 1x1½; interchangeable lenses; coupled rangefinder; automatic shutter cocking and film advance; depth of field scale; body shutter release; built-in self timer; built-in synchronization. Price, with coated 50-mm Nokton f/1.5 lens in Compur Rapid shutter, speeds 1 to 1/500 sec., & B, $275; with coated 50-mm Ultron f/2 lens in Compur Rapid shutter, $225. Case, $12.50.

VOIGTLANDER VITESSA

Cartridge 35-mm; up to 36 exposures, 1x1½; coated 50-mm Ultron f/2 lens; depth of field scale; Compur Rapid shutter, speeds 1 to 1/500 sec., & B; built-in synchronization; coupled



rangefinder; combined rangefinder and viewfinder window; combined film advance and automatic shutter cocking; parallax compensation; exposure counter; body shutter release; film speed indicator. Price, $159.50; Case, $10.50.

VOIGTLANDER VITO II

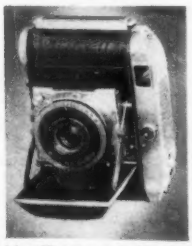
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., T & B; delayed action; built-in synchronization for class S lamps; built-in eye-level finder; manual and scale focusing; exposure counter; depth of field guide. Price, $61.25; case, $7.75; with f/3.5 Color-Skopar lens in Prontor S shutter with speeds from 1 to 1/300 sec., T & B; built-in synchronization, $54.50.

DIST., Willoughby's, Inc.

WELTAX

Rollfilm size 120; 12 exposures, 2¼x2¼; f/3.5 coated Meritar lens; depth of field scale; Prontor S shutter, 1 to 1/250 sec., & B; built-in flash synchronization; body shutter release; manual focusing; eye-level optical finder with parallax compensator. Price, $59.50, including tax. With f/3.5 T-coated Zeiss Tessar lens in Compur Rapid synchro shutter, 1 to 1/400 sec., & B, and delayed action timer, price $99.50 including tax.

WELTI II



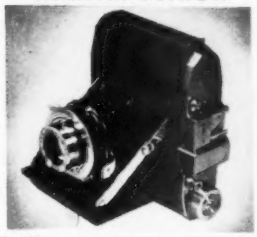
Cartridge 35 mm; up to 36 exposures, 1x1½; f/3.5 T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; combined coupled rangefinder and eye-level optical finder; body shutter release; exposure counter. Price, $149.50, including tax.

WELTI

Cartridge 35 mm; up to 36 exposures, 1x1½; T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; built-in flash synchronization; eye-level optical finder; manual focusing; exposure counter; body shutter release; accessory shoe. Price, $79.50, including tax.

DIST., Ercona Camera Corp.

WALTAX JUNIOR



Rollfilm size 120; 16 exposures, 1⅝x2¼; 75-mm f/4.5 coated Bio-Kolex anastigmat lens; Okako double action shutter, 1/25 to 1/150 sec., & B; built-in flash synchronization; manual helical focusing; eye-level optical finder; eveready case. Price, $23.90, including tax.

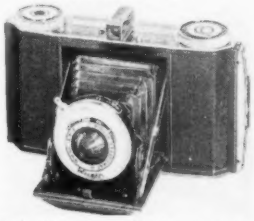
DIST., Spiratone.

WELLMY

Roll film size 120; 12 exposures 2¼x2¼; 75-mm Torionar f/3.5 lens; shutter speeds from 1 to 1/200 sec., B; body release; accessory rangefinder fits in clip on top of camera; built-in finder. Price, with case, $49.50.

DIST., General Photographic Supply Co.

WIRGIN 45



Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Wirgin Anastigmat f/4.5 lens; shutter speeds from 1/25 to 1/125 sec., T & B; other features and make-up similar to the above model. Price, $34.50 plus tax; Wirgin flashing unit, $6.98.

WIRGIN 51

Identical to the Wirgin 45, except has coated 75-mm Wollensak Velostigmat f/45 lens; shutter speeds from 1/25 to 1/150 sec., T & B; swing-out roll holders to ease loading; two tripod sockets. Price, $39.50 plus tax; Wirgin flashing unit, $6.98, plus tax.

WIRGIN 11

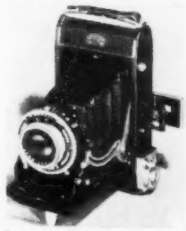
Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Meniscar lens; fixed focus; light-tight hinged back; self-erecting bellows; built-in flash synchronization; eye-level finder. Price, $17.95 plus tax; flashing unit, $3.98, plus tax.

DIST., Camera Specialty Co., Inc.

ZEISS IKON CONTAX-S

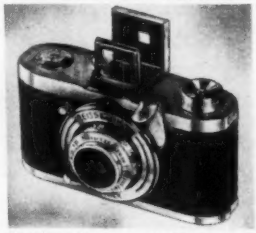
Cartridge 35 mm; up to 36 exposures, 1x1½; T-coated 58-mm f/2 Zeiss Biotar, f/2.8 T-coated Zeiss Tessar or f/3.5 T-coated Zeiss Tessar lenses, with built-in pre-set diaphragms; focal-plane shutter with speeds from 1 to 1/1000 sec.; built-in synchronization; single-lens reflex-type miniature with prismatic eye-level finder; built-in sportsfinder; depth of field guide on lens barrel; direct, through-the-lens focusing with non-reversing view; hyperfocal distance table. Price, with Biotar, $460; with f/2.8 Tessar, $385; with f/3.5 Tessar, $355; case, $17.50; prices include tax. Complete accessories available.

ZEISS IKON ERCONA



Roll film size 120; 8 exposures, 2¼x3¼; coated 110-mm f/4.5 Novar anastigmat lens in Prontor S shutter with speeds from 1 to 1/250 sec., B; built-in synchronization; eye-level optical finder; double exposure prevention device; body-type shutter release; manual focusing. Price, $67.50, including tax; case, $7.50.

ZEISS IKON TENAX



Cartridge 35 mm; up to 50 exposures, 1x1; f/3.5 T-coated Zeiss Tessar lens; depth of field scale; Compur Rapid shutter, 1 to 1/500 sec., & B; trigger-like mechanism advances film and cocks shutter in single operation, permitting sequence photography; exposure counter; eye-level optical finder; manual focusing. Price, $89.50, including tax; with f/3.5 coated Novar lens, price is $66, inc. tax.

DIST., Ercona Camera Corp.

A wonderful Voigtlander Camera

that *stops action* where *you* want it!

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VITESSA

with the famous
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in Compur rapid shutter
with built-in synchronization

THE NEW VITESSA FEATURES FROZEN ACTION

Get exactly the picture that you want — the Vitessa takes amazing pictures in direct sequence frames as fast as you can push the plunger! This compact 35mm all-metal camera with coupled rangefinder is ideal for all candid and rapid sequence work, including unposed baby pictures, sports events, news shots and pictures of celebrities.

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Quick
interchangeable film magazines . . .

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Quick
interchangeable lenses . . .

The $2^1/_4 \times 2^1/_4$ HASSELBLAD comes equipped with the matchless Kodak Ektar Lumenized f/2.8 Lens 80mm. Available as an accessory is the long-focus 135mm Ektar Lens and 250mm (10 in.) Zeiss Opton Sonnar Lens. They are quickly interchangeable.

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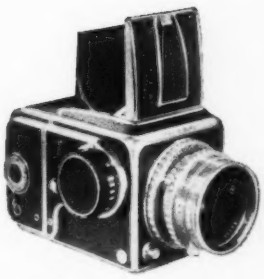
A single knob controls shutter settings and the automatic interlocking of the film wind. Built-in safeguards minimize possibility of error. The focal-plane shutter has a range of 11 speeds from 1 to 1/1600 second, and built-in sync for flash and strobe.

HASSELBLAD

THE NEW SWEDISH REFLEX CAMERA

Every few years a new camera really makes history. Such a camera is the $2^1/_4 \times 2^1/_4$ HASSELBLAD, the new Swedish "reflex". Truly a camera for the photographic perfectionist, a few of its key features are noted here. Full appreciation of the refinements of design that give this camera unprecedented built-in flexibility must, of course, await your personal inspection.

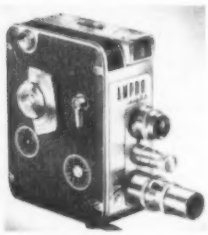


Write for the descriptive HASSELBLAD booklet to *Willoughbys*

Dept. A. 110 West 32nd Street · New York 1, N. Y.

MOVIE CAMERAS

AMPRO 8 MODEL 350

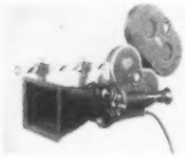


8-mm silent; magazine loading; 25 ft. capacity double width; six speeds, 12 to 64 frames per second; spring run 10 ft.; visual footage indicator; parallax correcting viewfinder; exposure guide; two-lens turret; selector guide for matching viewfinder to lenses. Price, with f/1.9 coated lens in focusing mount, $189.50; with f/2.5 coated lens in focusing mount, $163.50; case, $11.50.

AMPRO 8 MODEL 340

8 mm silent; magazine loading; 25 ft. capacity, double width; single lens model; same features as Model 350. Price, with f/2.5 coated lens in focusing mount, $143.50; case, $11.50; can be converted to turret Model 350.
MFR., Ampro Corporation.

ARRIFLEX



16-mm silent; roll loading; 50 to 400-ft. capacity; tachometer controlled speeds to 50 frames per second; 180° angle reflex shutter; shutter speed at 16 frames 1/35 sec.; battery-operated electric motor drive; direct viewfinder through taking lens with 10X eyepiece; full frame focusing even when camera is running; 3-lens divergent turret; true reflex system. Price depends on lens equipment; price furnished on request. Available accessories include case, 200 or 400-ft. magazines, and synchronous motor.
DIST., Kling Photo Supply Corp.

AURICON CINE-VOICE

16 mm sound-on-film recording camera; records sound track and picture on same film at same time; black-and-white or color film; 100-foot capacity; 24 frames per second; rotary shutter with 175° angle; 1/50 sec. shutter speed at 24 frames per second; electric motor drive; film arm indicator; large picture optical finder with parallax correction and lens mattes; focusing by lens calibration; interchangeable; 3-lens turret available; uses C-mount type lens. Price, $695 including tax; luggage type case included with camera. Accessories include tripods, qual-phono turntable, microphone stands, synchronous motor, etc.

AURICON-PRO

16 mm sound-on-film recording camera; designed to record both sound and picture on the same film, at the same time; black-and-white or color film; camera is completely silent in operation; records 5½ minutes of talking pictures continuously if desired; driven by synchronous electric motor; can be operated independent

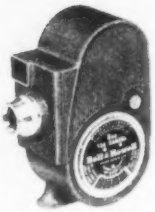
of power lines by means of portable power supply. Price on request.
MFR., Berndt-Bach, Inc.

B & H SPORTSTER

8 mm silent; 25 ft. capacity double width; camera speeds, 16, 24, 32, 48, and 64 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive; rundown stop; spring run 5 ft.; dial footage indicator; built-in eye-level finder with masks; interchangeable lenses; B&H coated .5-inch f/2.5 lens in bayonet mount; universal focus; single exposure device; built-in exposure guide; wrist cord, automatic film gate. Price, $109.95 including tax; sheath-type case, $8.95; candid-type case, $9.95; combination case, $18.95. Accessories include filters and interchangeable lenses: ½-inch f/1.9; ½-inch f/1.4; 1-inch f/1.5; 1-inch f/1.9; 1½-inch f/3.5; 2-inch f/1.4; and 2-inch f/3.5.

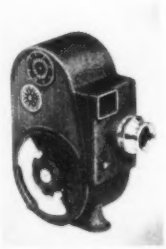
B & H 134-W

8-mm silent; roll loading; capacity 25 ft. double width; 8, 16, 24, 32 frames per second; 160° angle rotary disc shutter; shutter speed at 16 frames 1/35 sec.; spring motor; positive start; rundown stop; useful run 5 ft.; dial footage indicator; built-in eye-level viewfinder with etched frame for standard and telephoto lens fields; interchangeable lenses; built-in exposure guide; wrist cord. Price, with coated B & H ½-inch f/2.5 fixed focus lens in screw mount, $79.95. Available accessories include



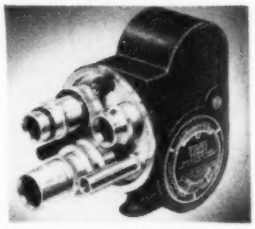
lenses, filters, and lens caps. Sheath case, $8.95; other cases for $9.95 and $18.95.

B & H 134-V



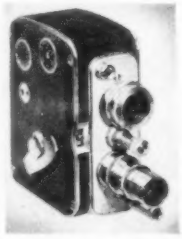
Same as above, except with additional speed of 64 frames per second, automatic film gate, and single exposure device. Price, $89.95. Accessories and cases same as for 134-W.

B & H TRI-LENS 8 (134-TA)



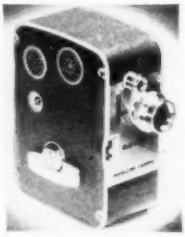
8 mm silent; 25 ft. capacity double width; individually calibrated film speeds of 16, 24, 32, 48, and 64 frames per second; 166° angle rotary disc shutter; positive start and rundown stop; spring run 5 ft.; dial footage indicator; spring motor drive; 3-lens turret with matching positive-type viewfinders; B & H coated .5" f/2.5 lens in screw mount; universal focus; built-in lens shade; built-in exposure guide; single exposure device; critical focuser; automatic film gate. Price, $129.95 including tax; case, $22.95. Available interchangeable lens same as 134-V plus 2" f/3.5 TTH, and B & H.

B & H 172-A



8 mm silent; magazine load; 25 ft. capacity, double width; 16, 24, 32, 48, and 64 frames per second; 166° angle rotary disc shutter; 1/35 sec., shutter speed at 16 frames per second; spring motor drive; indicator alarm; spring run 9 ft.; dial and visible pointer in viewfinder for footage indication; positive optical built-in eye-level finder; 2-lens turret; B&H coated .5 inch f/2.5 Comat lens in screw mount; universal focus; built-in lens shade; single exposure device; built-in exposure guide; continuous operation lock; viewfinders ride with lenses on turret. Price, $164.95 including tax; sheath-type case, $8.95; candid-type case $9.95; combination case, $22.95. Available interchangeable lenses: 6.5 mm (wide angle) f/1.9; ½-inch f/1.9; ½-inch f/1.4; ½-inch f/2.5; 1-inch f/1.9; 1-inch T 2.1 (f/1.9); 1½-inch f/1.9; 1½-inch f/3.5.

B & H 172-B



Same features as above, but single lens camera; not equipped with indicator alarm or visible pointer in viewfinder for footage indication. Price, with .5-inch f/2.5 coated Comat lens, $134.95. Case and accessories available.

B & H 200

16 mm silent; capacity 50 ft. in magazines; speeds of 16, 24, 32, 48, and 64 frames per second; 133° angle single blade disc shutter; 1/43 sec. shutter speed at 16 frames per second; spring motor with rundown stop; 12-foot useful run; dial-type footage indicator; positive optical built-in eye-level finder; direct through lens focusing; B&H coated 1-inch Comat f/2.5 lens; fixed mount; interchangeable; single exposure device; built-in exposure guide. Price, $189.95 including tax; sheath-type case, $9.95; combination case, $20.95. Accessories available include lenses, filters, thru-the-lens focuser.

B & H 200-T

Same as 200, except has 2-lens turret head; positive optical built-in eye-level viewfinder rides with lenses on turret. Price, $234.95 including tax; Accessories and available lenses are the same as the 200 model.

B & H 70-DL

16 mm silent; roll loading; 100 ft. capacity; adapted to take either sin-

The New Pan Cinor

20mm to 60mm variable focal length lens for 16mm cameras

Specifications

Focal length variable from 20 to 60mm, engraved in steps of 5mm
Focusing range: 5 feet to infinity
Maximum aperture: f/2.8
Diaphragm stops down to f/22
Lens coupled with a variable field finder having a parallax correction from 5 feet to infinity
Length in wide angle position: 3⅞"
Length in telephoto position: 4¾"
Equipped with detachable sunshade 1¼" long
Weight including viewfinder: 2 lbs.
Standard C mount
All lens elements are coated

AT LAST the amateur cameraman can *follow* action . . . *hold* action . . . *create* action – and a virtually unlimited variety of special effects – from one camera position! Yes, Pan-Cinor actually provides the equivalent of a 9-lens turret . . . without lens changes!

Scaled in size and price to the amateur budget . . . incredibly versatile yet easy to use as an ordinary lens, Pan-Cinor's big f/2.8 aperture is ideal for color work or black and white coverage of fast indoor sports.

Imagine . . . z-z-zooming from wide angle to telephoto in one "take"! Or dollying in and out of scrimmages without a lost play from one vantage point!

With its coupled view-finder and standard "C" mount, Pan-Cinor fits practically any 16mm camera.

Because the necessarily critical tolerances observed in manufacture and assembly will limit initial quantities, watch for them to appear exclusively at Bolex Franchised Dealers.

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Bolex® brings the best to 16mm Movie Making!

gle (for sound) or double perforated film; camera speeds of 8, 12, 16, 24, 32, 48, and 64 frames per second; 204° rotary disc shutter; 1/28 sec. shutter speed at 16 frames per second; spring motor drive with positive start rundown stop; useful spring run of 23 ft.; hand crank; revolving drum finder; 3-lens turret with matching 3-objective viewfinder including parallax correction, focusing eyepiece and film plane reference mark; B&H coated 1-inch f/2.5 lens set to scale; screw mount; built-in lens shade; critical focuser; continuous operation lock. Price, $341.50 including tax; combination case, $37.95. Available accessories include filters, motor, rewind knob, external magazines. Complete line of lenses available.

B & H 70-H

16-mm silent; roll loading; 100-ft. normal capacity; adapted for 200 and 400 ft. external magazines; 8, 12, 16, 24, 32, 48, and 64 frames per second; 204° angle disc shutter; shutter speed of 1/28 sec. at 16 frames per second; 1/25 sec. single frame speed; spring run; positive start; Veeder footage counter; positive parallax correction; critical focusing through lens; adapted for electric motor drive; adapted for single perforated sound film; hand strap; hand crank; B & H Super Comat coated 1-inch f/1.9 lens; 3-lens turret; slack film take-up; rewind knob; built-in inertia stabilizer. Price, $675.50. Accessories available include filters, synchronous motor, lenses, single-exposure device, external film magazines; combination case holding camera, magazines, electric motor and all accessories, $52.95.

B & H 70-S

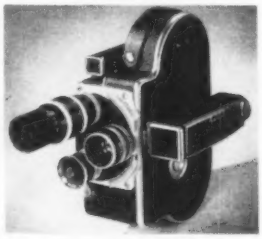
16-mm silent; adaptable for sound with single perforated film; 100-ft. capacity; 128 frames per second; 217° angle disc shutter; shutter speed at 128 frames is 1/210 sec.; spring motor; positive start; rundown stop; useful run 17 ft.; positive viewfinder; focusing through lens-center of field only; parallax adjustment; adapted for electric motor drive; B & H Super Comat coated 1-inch f/1.9 lens in screw mount; 3-lens turret. Price, $365.50; combination case, $37.95. Available accessories include full line of lenses, filters, hand strap, electric motor, Veeder footage counter, 400-ft. external film magazines, speeds of 160 or 240 frames per second.

MFR., Bell & Howell Co.

BOLEX L-8

8-mm silent; roll loading; capacity 25 ft. of double width; 12, 16, 24, and 32 frames per second; 160° angle rotary shutter; shutter speed at 16 frames 1/30 sec.; spring motor; positive start; rundown stop; useful run 7 ft.; automatic dial footage indicator; eye-level viewfinder corrected for ½, 1, and 1½-inch lenses; built-in exposure guide; end of film indicator in viewfinder; automatic footage dial return; continuous run lock; built-in lens shade; slack film take-up. Price, with coated ½-inch Kern Yvar f/2.8 lens in fixed focus mount, without case, $97; in focusing mount, $116.50, inc. case. Available accessories include lenses, handstrap, cable release, case, parallax connector, wide-angle viewfinder lenses.

BOLEX DELUXE H-16 and H-8



16 or 8-mm silent; roll loading; 100-ft. capacity; 8, 16, 24, 32, 48, and 64 frames per second; 190° angle rotary shutter; shutter speed at 16 frames 1/30 sec.; speed at single frame, 1/25 sec.; spring motor; positive start; rundown stop; useful spring run 18 ft. for H-16, 12 ft. for H-8; automatically resetting dial footage indicator; Octameter viewfinder showing fields of wide angle to 150 mm for H-16 and 75 mm for H-8; focusing through lens from behind camera; C-mount 3-lens turret; automatic threading; instantaneous and time single exposure device; parallax adjustment down to 18 inches; frame counter; full rewind of 100 ft.; forward wind by hand or motor; clutch disconnects spring motor when electric motor or hand wind are used; audible footage counter; built-in film cutter. Price of H-16 with coated 25-mm Kern Switar f/1.4 lens, $496.50; also available with f/1.5 and f/1.9 lenses from $372.75 up. Price of H-8, with coated 12.5-mm Kern Switar f/1.5 lens, $438.50; also available with f/1.9 lenses from $364.75 up. Available accessories include sound sprockets, filterslot installation, cable release, trigger handle, turret lever, prismatic focuser, eye-level focuser. Hard leather case, $45; leather zipper case, $32.50.

BOLEX LEADER H-16 and H-8

Identical to DELUXE, except has Trifocal finder for three lenses instead of Octameter and is equipped with achromatic eyepiece for focusing through the lens from top of camera

instead of eye-level focus from behind. LEADER H-16 with coated 25-mm Kern Switar f/1.4 lens, $423.25; also available with f/1.5 and f/1.9 lenses from $299.50 up. H-8 with coated 12.5-mm Kern Switar f/1.5 lens, $365.25; also available with f/1.9 lenses from $291.50 up. Cases and accessories same as for DELUXE models.

BOLEX LEADER H-16 & H-8

Same as above, except focusing through any lens with achromatic eyepiece from top of camera instead of behind the camera. Price, without lens, $244.75; no F. E. T. required.

DIST., Paillard Products, Inc.

BROWNIE MOVIE CAMERA

8 mm silent; capacity 25 ft. double width; spring drive; rotary shutter; 16 frames per second, at speed of 1/35 sec.; spring run 7 ft.; mechanical footage indicator; wire frame viewfinder; 13-mm f/2.7 coated Kodak Ektanon lens; fixed focus; Waterhouse lens stops; built-in lens shade; sprocketless loading. Price, $43.30 including tax; field case, $3.40.

MFR., Eastman Kodak Co.

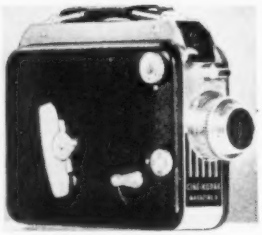
CAMERAFLEX

35 and 16 mm silent models; camera magazines hold 200 and 400 ft. rolls; 12, 24 or 115-volt motors; detachable spring motor available; built-in tachometer; critical focus; governor controlled speeds from 8 to 135 frames per second; 3-lens turret; motor mounted underneath for hand operation, or on side for operation on tripod. Price on request.

MFR., Cameraflex Corp.

CINE-KODAK MAGAZINE 8

8 mm silent; magazine loading with 25 ft. capacity double width; 16, 24,

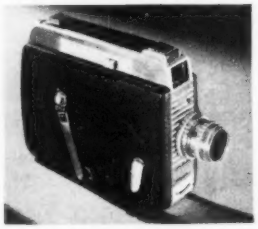


32, and 64 frames per second; 165° angle rotary shutter; 1/35 sec. shutter speed at 16 frames per second; spring drive, useful run 10 ft.; positive start; mechanical footage indicator; positive optical built-in eye-level finder; interchangeable lenses; bayonet mounting; coated Kodak Cine Ektanon 13-mm f/1.9 lens; built-in lens shade; set to scale focus; interchangeable magazines; pulse indicator; built-in exposure guide; parallax adjustment. Price, $150.95 including tax; combination case, $29.95; zip case, $7.25. Lenses available: 9-mm f/2.7, and 38-mm f/2.5, 50-mm f/1.6 and 63-mm f/2.7 Cine Ektanon; 25-mm f/1.9, 25-mm f/1.4, 40-mm f/1.6 and 63-mm f/2 Cine Ektar. Accessories include filters, supplementary lenses, focusing finder, ultra closeup attachment, etc. Also available with pre-focused Cine Ektanon 13-mm f/2.7 lens, $124.15, inc. tax.

CINE-KODAK RELIANT

8 mm silent; capacity 25 ft. double width; spring drive; dial-type footage indicator; 16, 24, 32, and 48 frames per second; built-in eye-level finder with parallax-correction indicators for 2- and 4-foot close-ups; shows field of 38-mm telephoto lens; sprocketless loading; built-in exposure guide; locking exposure button for continuous run. Price, with fixed-focus Cine Ektanon f/2.7 lens, $82.30 including tax; with Cine Ektanon f/1.9 lens in focusing mount, $102.25 including tax. Accessories include coated 38-mm Kodak Cine Ektanon f/2.8 telephoto lens, filters, cases, lens attachments, etc. Vuedar Converter makes 9-mm wide-angle lens out of 13-mm standard lens.

CINE-KODAK ROYAL MAGAZINE



16 mm silent; magazine loading; 50 ft. capacity; 16, 24, and 64 frames per second; 160° angle rotary shutter; spring drive, 10 ft. run; 1/35 sec. shutter speed at 16 frames per second; rundown stop; positive start; direct contact footage indicator; enclosed optical viewfinder adjustable for standard, wide-angle, and telephoto lenses; single frame exposure; exposure guide. 25-mm f/1.9 Kodak Cine Ektar lens with focusing mount from 12 inches to infinity, $176.25, inc.

35mm FILM

For Kodak, Argus, Leica and Other Cameras

AVAILABLE IN ANY OF THE FOLLOWING TYPES

ANSCO: Fino-pan, ultra speed & supreme

KODAK: Plus x, super xx, & background x

100 foot roll	$1.40
100 foot roll, notched	1.65
200 foot roll	2.40
200 foot roll, notched	2.60
400 foot roll	4.75
400 foot roll, notched	5.25

the notched film has the proper tongued cut-out at every 36 exposure with extra film allowed for loading cartridge or threading camera. ALL FILM SUPPLIED IN METAL CANS.

Ship. wt., 100 ft. 2 lbs.; 200 ft. 2 lbs.; 400 ft. 3 lbs.

NEW 8mm 200' EMPTY REELS

Made of sturdy steel, gray finish

5 for $1.00 *Ship. wt. (4 reels) 1 lb.*

KODAK AERO BROMIDE ENLARGING PAPER

A special close-out at a fraction of the original cost.

SW #1, #2 in hermetically sealed cans 9⅜"x200' makes approximately 250, 8x10 enlargements.

$2.95* each — weight 10 lbs. — 3 rolls $8.50* — 12 rolls $34.20**

Ship. wt. (12 rolls) 115 lbs.

SW #1, #2, in hermetically sealed cans 7"x125' 3 rolls $5.50* — 20 rolls, $37.40**

Ship. wt. (20 rolls) 100 lbs.

SW #1, #2 3⅜"x200' $1.65* ea. — 2 rolls, $2.95**

Ship. wt. (1 roll) 2 lbs.

**Assortment of contrast, indicate your choice.*
***Only 1 contrast, indicate your choice.*

IT'S CHEAPER WHEN YOU BUY 10, 20, 30, 50, 100 ROLLS

MONEY BACK GUARANTEE

ON EACH ROLL OF FILM YOU SAVE UP TO 39¢!

PURCHASE YOUR ROLL FILM BY MAIL ORDER . . .

NATIONALLY KNOWN **KRYPTAR** FILM IS FULLY GUARANTEED

available in these popular sizes

- FINE GRAIN FILM
- WESTON 40 RATING

Famous KRYPTAR film is manufactured by one of the leading photographic firms in the U. S. Each roll of KRYPTAR film fully guaranteed — late 1953 dating.

$1.95 FOR 10 ROLLS

20 rolls	$ 3.75
30 rolls	$ 5.50
50 rolls	$ 8.75
100 rolls	$16.50

Ship. wt. (10 rolls) 1 lb.

35mm ANSCO COLOR DAYLIGHT

20 EXPOSURE RELOADS

$1.10 EACH — 5 for $5.00

Ship. wt. (5 rolls) 1 lb.

FACTORY FRESH FULLY GUARANTEED

ANSCO A-47, 3½ GAL. SIZE FILM DEVELOPER
80% off regular price. minimum order: 2, 3½-gal. containers. **our price 50¢ ea.**

BULK FILM

AVAILABLE in { 8mm DOUBLE, 16mm SILENT, and 16mm SOUND.

Type of film	50 ft.	100 ft.	400 ft.
Weston 50-32 for outdoor and indoor use, fully panchromatic	45¢	90¢	$3.60

Ship. wt. (400 ft.) 2 lbs.

35mm BLACK & WHITE, 36 EXPOSURE CARTRIDGES, PANCHROMATIC, GUARANTEED FRESH! *Ship. wt. (4 rolls) 1 lb.*
4 for $1.00 — **12 for $2.75**

16mm BELL & HOWELL SOUND PROJECTORS

UTILITY MODEL—750 WATT BULB

Consists of 2 cases complete with 12" speaker, cable, lamps, lens, amplifier—ready to operate—like new condition.
Brown simulated alligator leatherette cases, unmarked and unscratched—limited amount available—order immediately while supply lasts.
Shipped collect by railway express. . . **$195** Complete

Ansco COLOR PRINTON

3¼" x 50 Ft.

Ship. wt. 2 lbs. **$7.50** Save by buying Printon in Bulk

PANCHROMATIC ROLL FILM

SIZES #616, #116 A.S.A. 50

U. S. Government Surplus—Fully Guaranteed. We purchased at an unusually low price ½ million rolls, manufactured by a world-famous film manufacturer. Reg. 60c per roll,

OUR PRICE, 20 ROLLS $3.00

Ship. wt. (20 rolls) 3 lbs.

THIS ROLL OF MOVIE FILM FREE

MONEY BACK GUARANTEE

ONE ROLL OF BLACK AND WHITE MOVIE FILM GIVEN FREE WITH EACH ORDER OF 6 ROLLS

- TREMENDOUS CLEARANCE SALE
- ALL FILM FULLY GUARANTEED
- COLOR FILM AT THE PRICE OF BLACK & WHITE

Film manufactured by nationally known firm. All film is GUARANTEED. Late 1953 dating. Price of film includes FREE processing and return postage.

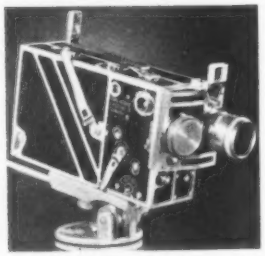
	COLOR	B & W Weston 50
8mm roll, 25 ft. double Ship. wt. (6 rolls) 2 lbs.	$2.75	$1.25
16mm roll, 100 ft. Ship. wt. (6 rolls) 4 lbs.	7.50	3.00
16mm mag., 50 ft. Ship. wt. (6 rolls) 5 lbs.	4.95	2.75

MAILING INSTRUCTIONS. *To save C.O.D. charges on all mail orders, remit by check, cash, M.O. 20% deposit must be remitted with all C.O.D.'s. Add postage to remittance. Excess postage will be returned. Orders without postage will be sent collect.*

RUSH YOUR ORDER TODAY . . . $AVE DOLLARS!
EIGHT-SIXTEEN FILMS, 243 WEST 55th STREET, N. Y. 19, N. Y.

tax; with pre-focused f/2.8 Ektanon lens, $162.15, inc. tax.

CINE-KODAK SPECIAL II

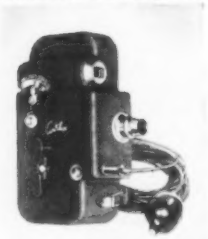


16 mm silent; 100 or 200 ft. capacity; 8, 16, 24, 32, and 64 frames per second; 165° angle, variable, rotary shutter; dissolving; 1/35 sec. shutter speed at 16 frames per sec.; spring drive, useful run 38 ft.; positive start; rundown stop; two types of footage indicators; direct eye-level finder; interchangeable lenses; 2-lens turret; coated 25-mm Kodak Ektar f/1.4 or f/1.9 lens; built-in lens shade; set to scale, reflex, and full vision groundglass focusing; single exposure device; parallax adjustment; masks, fades, dissolves; interchangeable film chambers; hand crank; forward or reverse; frame counter; engraved plate with owner's name. Price on request.
MFR., Eastman Kodak Co.

CINEMASTER II

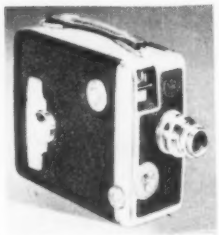
8 mm silent; capacity 25 ft. double width; 16, 24, and 32 frames per second; guillotine-type shutter; spring motor drive, useful run 10 ft.; positive start; blade-type footage indicator; built-in eye-level finder; interchangeable lenses; universal focus; screw mount; built-in exposure guide; continuous run lock; combined exposure meter and optical viewfinder. Price, with coated 1/2-inch anastigmat f/2.5 lens, $66.65; with f/1.9 lens, $96.75; eveready case, $6.
MFR., Universal Camera Corp.

CINKLOX-SUPER FM-7



16 mm silent; roll loading; 100 ft. capacity; 3-speed motor for 16 and 24 frames per second, and slow motion; coated Wollensak f/2.5 lens with click stops; direct viewfinder; remote cable attachment to enable operator to get in scene; lock-on starting button; weighs over 4 lbs. Price, $71, tax included with f/2.5 lens. Accessories include carrying case, telephoto lens.
MFR., Cinklox Camera Co.

CORONA 61

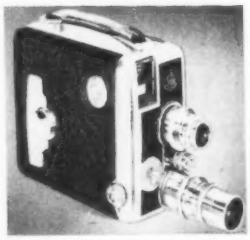


8 mm silent; magazine loading; 25 ft. capacity, double width; 16, 24, 32, and 64 frames per second; spring drive, 8 ft. run; external and internal footage indicators; built-in eye-level optical finder; interchangeable lens mount; parallax adjustment; slack film take-up; optional Wollensak, Elgeet, or Somco lenses; covered in natural goatskin leather with satin chrome finish. Price, from $127.25 to $153.10, including tax, depending upon lens.

CORONA 51

Same features and design as Model 61, but finished in two-tone gray wrinkle and hammerloid. Prices, from $84.00 to $105.10, including tax, depending upon lens.

CORONA 61-T



Same features and design as Model 61, but equipped with quick-change two-lens turret. Prices range from $143.50 to $165.60, including tax, depending upon choice of lens from those offered.

CORONA 51-T

Same as above, except finished in two-tone gray and hammerloid. Prices range from $109.90 to $136.80, including tax, depending upon choice of lens.
MFR., Photographic Industries.

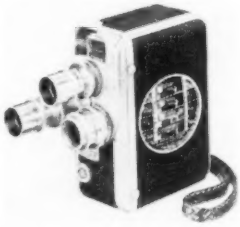
DEJUR CITATION DC-600

8 mm silent; roll loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, and 48 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in eye-level finder etched for 1 1/2-inch lens; coated 13-mm anastigmat f/2.5 lens, fixed focus; interchangeable; built-in lens shade; slack film take-up; built-in exposure guide; release lock; sprocketless loading; anti-jam film gate. Price, $77.50 including tax; Sheathcase, $9.25. Accessories include fixed-focus and focusing lenses, lens attachments, hand strap.

DEJUR DELUXE CITATION DC-800

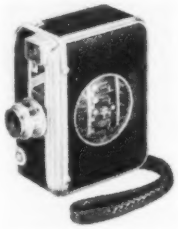
Same as DC-600, except for universal focus lens; finished in black Morocco leather, with satin chrome finish. Price, $87.50, including tax; sheath case, $9.25.

DEJUR EMBASSY DC-700



8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; 1/25 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in finder etched for 1 1/2-inch lens; 3-lens turret; coated 13-mm anastigmat f/2.5 fixed-focus lens; built-in lens shade; interchangeable lens; slack film take-up; release lock; single-exposure device; built-in exposure guide; hand strap. Price, $131.95 including tax; Holster case, $11.50. Available accessories same as Citation.

DEJUR EMBASSY DC-400



Same as the Embassy D-700 except has single-lens front. Price, $106.95 including tax; Eveready case, $11.50.

DEJUR FADEMATIC DC-100

8 mm silent; magazine loading; capacity, 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter; 160° angle; 1/36 second shutter speed at 16 frames per second; 1/25 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in, adjustable "zoom-type" magnification finder; coated 13-mm anastigmat f/2.5 fixed-focus lens; interchangeable; built-in lens shade; slack film take-up; release lock; single-exposure device; built-in exposure guide; handstrap; Fadematic Control built in for fades and lap-dissolves. Price, $127.50 including tax; holster case, $11.50.

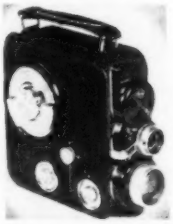
DEJUR FADEMATIC CALIFORNIAN DCH-100

Same as the Fadematic DC-100 except for covering; Californian is covered with saddle leather. Price, $130 including tax; eveready case, in California Saddle Leather, $13.75.

DEJUR FADEMATIC CALIFORNIAN TURRET DCH-300

Same as the Fadematic DH-100 except that it is equipped with a 3-lens turret. Price, $155 including tax; deluxe compartment case in Calif. Saddle Leather, $24.50.
MFR., DeJur-Amsco Corp.

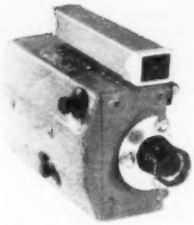
EUMIG 88



8-mm silent; roll loading; capacity 25 ft. double width; camera speeds 8, 16, 24, and 32 frames per second; rotary shutter; shutter speed at 16 frames 1/36 sec.; single frame device, speed, 1/30 sec.; spring motor; positive start; footage indicator; useful run 8 ft.; eye-level optical viewfinder; parallax correction; coated 12.5-mm f/1.9 fixed focus lens; slack film take-up; built-in exposure guide; continuous run; built-in photoelectric cell exposure meter. Price, $139.95; eveready case, $10.
DIST., Camera Specialty Co., Inc.

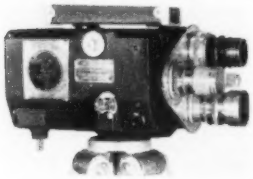
GORDON

16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 16, 32, and 64 frames per second; revolving shutter; 1/45 sec. shutter speed at 16 frames per second; electric drive; positive start; mechanical, geared footage indicator; positive optical viewfinder; interchangeable 1 3/8-inch Eastman Kodak or Bausch & Lomb f/3.5 lens; screw mount; fixed focus; built-in lens shade; built-in exposure



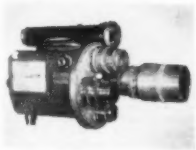
guide; parallax adjustment. Price, $69.50 including tax.
MFR., Gordon Enterprises.

GROVER 3-LENS G.S.A.P. TURRET



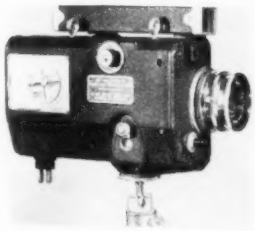
16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 12, 24, 32, 48, 64, and 96 frames per second; 60° shutter; 1/40 sec. shutter speed at 16 frames per second; electric motor drive; useful run, 50 ft.; dial footage indicator; revolving 3-lens "C" mount turret. Supplied without lenses but with all equipment and gadget bag type case. Price with standard optical finder, $120.75; with zoom finder for lenses from ½" to 6", $155. Prices include power supply pack using standard photoflash batteries. All standard lenses available at additional cost.

GROVER 4-LENS GSAP TURRET



Same as above, but with 4-lens turret and zoom finder for lenses from ½-inch to 6 inches. Price without lenses, but otherwise complete, $195, inc. case.

GROVER G.S.A.P. C MOUNT



16 mm silent; magazine loading; 50 ft. capacity; 16, 32, and 64 frames per second; rotary shutter; 60° angle; 1/40 sec. shutter speed at 16 frames; electric motor drive; 50 ft. useful run; dial footage indicator; optical finder; helical focusing; coated 1-inch Wollensak f/2.5 lens; interchangeable; built-in lens shade; switch for remote control; built-in exposure guide; parallax adjustment; power supply pack from standard photoflash cells. Price, $87.50 including tax; case, $4.75. Accessories for Grover cameras include filters, slip-on lenses, hand straps, motor, etc.
MFR., Grover Photo Products.

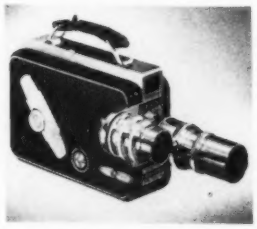
KEYSTONE K-40

8 mm silent; magazine loading; capacity 25 ft. double width; 165° angle rotating shutter; 8, 16, 24, and 64 frames per second; 1/35 sec. shutter speed at 16 frames; spring motor drive; positive start; rundown stop; useful run 6½ ft.; dial-type footage indicator; positive optical finder; interchangeable lens; ½-inch coated Wollensak f/2.5 lens; universal focus; built-in exposure guide; single exposure device; notches in finder aperture indicate parallel correction; visible and audible footage indicator in viewfinder; clicks at passage of every 9 inches of film; thumbwheel on top of camera changes size of viewfinder field for 1-inch and 1½-inch telephoto lens. Price, $107.75 including tax; with f/1.9 fixed-focus lens, $122.50; with f/1.9 lens in focusing mount, $132.50; case, $7.95.

KEYSTONE OLYMPIC K-32

8 mm silent; single lens; roll loading; 25 ft. capacity, double width; sprocketless loading; 8, 16, 24, and 64 frames per second; rotary shutter; single frame release; built-in optical viewfinder converts to wide-angle; spring drive. Price, with f/2.5 coated lens, $78; with f/1.9 coated fixed focus lens, $92.75; with f/1.9 coated lens in focusing mount, $102.75.

KEYSTONE MAYFAIR K-55



16 mm silent; magazine loading; 50 ft. capacity; two-lens turret; 8, 16, 24, and 64 frames per second; rotary shutter; single frame release; built-in optical viewfinder matches four lenses; spring drive. Price, with f/2.5 coated fixed focus lens, $146.50 with f/1.9 coated lens in focusing mount, $176.50.

KEYSTONE K-45

8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 165° angle; 1/35 sec. shutter speed at 16 frames per second; 1/29 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 6½ ft.; dial-type footage indicator; built-in optical finder, thumbwheel on top of camera changes size of field for 1-inch and 1½-inch telephoto lenses and ½-inch standard lens; single-exposure device; built-in exposure guide; parallax adjustment; visible footage indicator; 3-lens turret. Price, with coated ½-inch Wollensak fixed-focus f/2.5 lens in screw mount, $127.50 including tax; with f/1.9 lens in focusing mount, $152.50; combination case, $16.50.

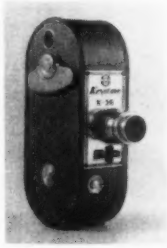
KEYSTONE K-22

8 mm silent; capacity 25 ft. double width; 12, 16, and 48 frames per second; 140° angle rotating shutter; 1/40 sec. shutter speed at 16 frames; spring motor drive; useful run 5 ft.; positive start; dial-type indicator; built-in eye-level finder; interchangeable lens; ½-inch Wollensak coated f/2.5 lens; fixed focus; built-in exposure guide; flat base; equipped with 2 telephoto lens viewfinder frames which can be swung over in front of viewfinder lens, shows size of field for 1-inch and 1½-inch telephoto lens. Price, $73 including tax; with f/1.9 fixed-focus lens, $88; with f/1.9 lens in focusing mount, $97.75; price of cases, $7.95 and $8.50.

KEYSTONE K-29 PATHFINDER

8-mm silent; rollfilm capacity 25 ft. double width; 12, 16, and 48 frames per second; 140° angle rotating shutter; spring motor drive; useful run 5 ft.; positive start; audible footage indicator; built-in eye-level viewfinder; built-in exposure guide; flat base. Price, with f/2.8 coated lens, $49.95; with f/1.9 fixed focus lens, $62.95.

KEYSTONE K-36

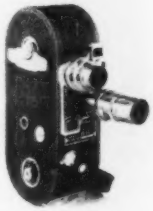


Similar to K-22 model. Price, with coated ½-inch Wollensak fixed-focus f/3.5 lens, screw mount, $49.95 including tax; with ½-inch fixed-focus f/2.8 lens, $58.50; with ½-inch fixed-focus f/1.9 lens, $78; cases, $7.95 and $8.50.

KEYSTONE A-9

16 mm silent; capacity 100 ft. rolls; 10, 16, 24, 32, 40, 48, and 64 frames per second; 160° angle rotating shutter; 1/36 sec. shutter speed at 16 frames; spring motor drive; positive start; useful run 20 ft.; window-type footage indicator; built-in eye-level finder; interchangeable lens; 1-inch coated Wollensak f/2.5 lens; universal focus; built-in lens shade; built-in exposure guide; equipped with single-exposure device; 1/32 sec. shutter speed at single frame; audible scene length indicator; continuous run; single finger single claw allows camera to use sound film. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $89.50 including tax; with coated Wollensak f/1.9 lens in focusing mount $121; holster case, $13.75.

KEYSTONE A-12



Similar to A-9; equipped with 2-lens turret; rotation of turret changes size of finder field for 2-inch and 3-inch telephoto lenses, optical slide changes field for 17-mm wide-angle lens. Single finger single claw allows camera to use sound film. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $119.50 including tax; with Wollensak f/1.9 lens in focusing mount, $151.

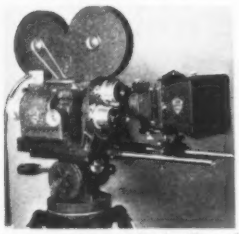
KEYSTONE K-50

16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 150° angle; 1/38 sec. shutter speed at 16 frames per second; 1/26 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 10 ft.; built-in eye-level finder; sliding knob changes size of viewfinder field for 17-mm wide-angle, 1-inch and 2-inch telephoto, and 1-inch standard lenses; lens in screw mount; single-exposure device; built-in exposure guide; parallax adjustment. Price, with coated Wollensak fixed-focus f/2.5 lens, $127 including tax; with f/1.9 lens in focusing mount, $158.50; combination case, $16.50; holster case, $10.50.
MFR., Keystone Mfg. Co.

MAURER MODEL 05

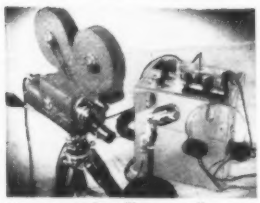
16 mm silent; capacity 200, 400, or 1200 ft.; 235° angle, variable and dissolving 3-blade shutter; 2 to 128 frames per second with synchronous motor; 1/35 sec. shutter speed at 24 frames per second; motor drive; positive start; Veeder-Root Counter footage indicator; stop action positive optical finder with erect image, masks for 15-mm to 152-mm lenses; interchangeable Ektar and Baltar lenses; 3-lens turret; optional lens equipment; parallax adjustment; slack film take-up; 400-foot magazine; 140-power focusing system through the lens; clear glass viewing system; detachable finder. Price on request.
MFR., J. A. Maurer, Inc.

MITCHELL 16 PROFESSIONAL



16 mm sound; magazine loading; 400 ft. and 1200 ft. capacity; stop motion to 128 frames per second; rotary shutter; 175° or 235° angle; variable and dissolving shutter; 1/34 sec. shutter speed at 16 frames; four-lens turret; motor drive; Veeder footage counter; erect image finder with built-in adjustable mattes; focusing through the lens; interchangeable Baltar or Eastman lenses; built-in lens shade; C mount and screw mount. Price, $4000.
MFR., Mitchell Camera Corp.

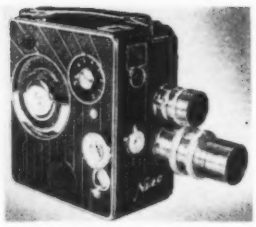
MORTON SOUNDMASTER



16 mm sound-on-film recording camera; single-system unit recording sound and pictures simultaneously on the same film; 200 ft. magazine interchangeable with 400 ft. magazine; 3-lens turret; amplifier; microphone; headset; operated by portable power pack. Price, $670.
MFR., The Morton Co.

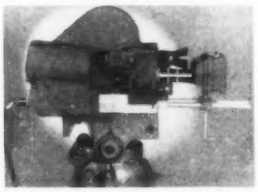
NIZO MODEL 2-ST

8 mm silent; roll loading; 25 ft. capacity, double width; 8, 16, 24, 32, 48, and 64 frames per second; rotary shutter; spring drive, useful run 11 ft.; dial footage indicator; positive start, run down stop; slack film take-up; rewind device, hand crank; audible frame counter; built-in exposure guide; three optical finders at eye-



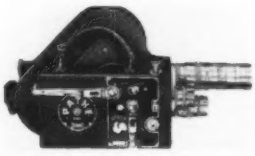
level, waist-level and right-angle positions; parallax compensation optional; automatic optical field magnification compensator when telephoto lens is brought into position; fixed focus; built-in dissolve and fade devices; filter, hand strap and cable release supplied; two-lens slide shifts positions without rotating. Price, with .5-inch f/1.9 coated Schneider lens and 2-in. or 1½-in. f/2.8 telephoto, $205; with .5-inch f/1.5 coated Rodenstock lens 2-in. or 1½-in. f/2.8 telephoto, $260; parallax compensation, $20 additional.
DIST., Ercona Camera Corp.

NORD PROFESSIONAL



16 mm; roll film loading; 200 ft. capacity; 24 frames per second; 240° angle shutter; electric motor; continuous run; foot and frame counter; studio, or Nord semi-zoom finder; rack-over focusing and microscope, critical focusing; automatic forward and reverse take-up; rack-over completely enclosed; uses lenses with C mount. Price, under $2500 including case and tax. Accessories include hand crank, synchronous motor; blimp; animation clutch.
MFR., The Nord Co.

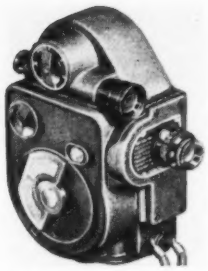
PATHE SUPER 16



16 mm silent; roll loading; 100 ft. capacity; camera speeds, 8, 16, 24, 32, 64, and 80 frames per second; dissolving focal-plane shutter; 85° angle; variable; 1/32 sec. shutter speed at 16 frames per second; 1/32 sec. at single frame; spring motor drive; positive start; useful spring run, 30 ft.; mechanical footage indicator; direct reflex finder allowing focusing through the lens during filming and optical finder corrected for various focal length lenses; no parallax; single-exposure device; slack film take-up; full frame focusing device; built-in hand crank; 3-lens turret; automatic footage and frame counters. Price, $395; case, $45.
DIST., Director Products Corp.

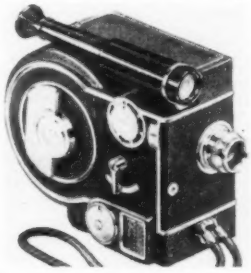
REVERE MODEL 88

8 mm silent; capacity 25 ft. double width; 8, 12, 16, 24, and 32 frames per second; 160° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames; governor speed control; spring motor drives; useful run 6 ft.; silent helical gears; automatic film loop sprocket; recessed gate pre-



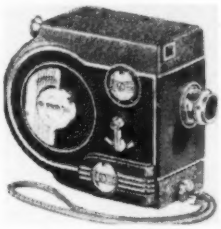
vents film scratching; built-in optical finder; parallax corrected. Price with f/2.5 lens, universal focus, $72.50 including tax; with f/1.9 lens in focusing mount, $97.50.

REVERE MODEL 70



8 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 160° angle rotary disc shutter; 1/35 sec. speed at 16 frames; spring motor drive, useful run 9 ft.; positive start; rundown stop; visual footage indicator; positive optical built-in eye-level finder; interchangeable lenses; ½" coated anastigmat f/2.8 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrected; ratchet wind; wrist strap. Price, $109.50 including tax; with f/1.9 lens in focus mount, $134.50.

REVERE C77

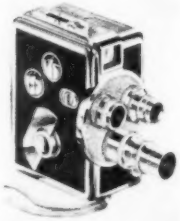


Same as the C70 model except has built-in eye-level finder; equipped with coated ½-inch f/2.5 lens. Price, $99.50 including tax.

REVERE 55

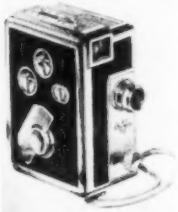
8 mm silent; roll loading; 25 ft. capacity, double width; rotary shutter; 16 and 64 frames per second; built-in dissolve and fade device; shutter speed 1/35 sec. at 16 frames per second; single frame device; Spring drive; positive start; rundown stop; useful run 11 ft.; dial footage indicator; ½-inch f/2.8 coated fixed focus lens in recessed mount, non-interchangeable; built-in optical viewfinder with parallax correction; built-in exposure guide; sprocketless drop loading. Price, with plastic case, $73.50; without case, $69.50; prices include tax.

REVERE 44



8-mm silent; magazine loading; capacity 25 ft. double width; 12, 16, 24, 32, and 64 frames per second; spring motor; single frame exposure device; positive start; automatic footage indicator; built-in adjustable eye-level viewfinder; continuous run; 3-lens turret; exposure guide. Price, with coated ½-inch f/2.8 fixed focus lens, $129.50; with coated 13-mm f/1.9 lens in focusing mount, $154.50.

REVERE 40



8-mm silent; magazine loading; capacity 25 ft. double width; spring motor; 12, 16, 24, 32, and 64 frames per second; automatic footage indicator; exposure guide; built-in adjustable eye-level viewfinder; single frame exposure; click stop lens settings; continuous run; interchangeable lens mount. Price, with coated ½-inch f/2.5 fixed focus lens, $99.50; with coated 13-mm f/1.9 lens in focusing mount, $124.50.

REVERE 50

8-mm silent; sprocketless roll loading; capacity 25 ft. double width; spring motor; useful run 10 ft.; continuous run; single frame exposure device click-stops aperture settings; built-in lens shade; automatic footage indicators; exposure guide; built-in eye-level viewfinder. Price, with coated 12.7-mm, f/2.8 fixed-focus lens, $49.50.

REVERE MODEL 99

Same as Model 88, except has rotating turret head for three screw-type

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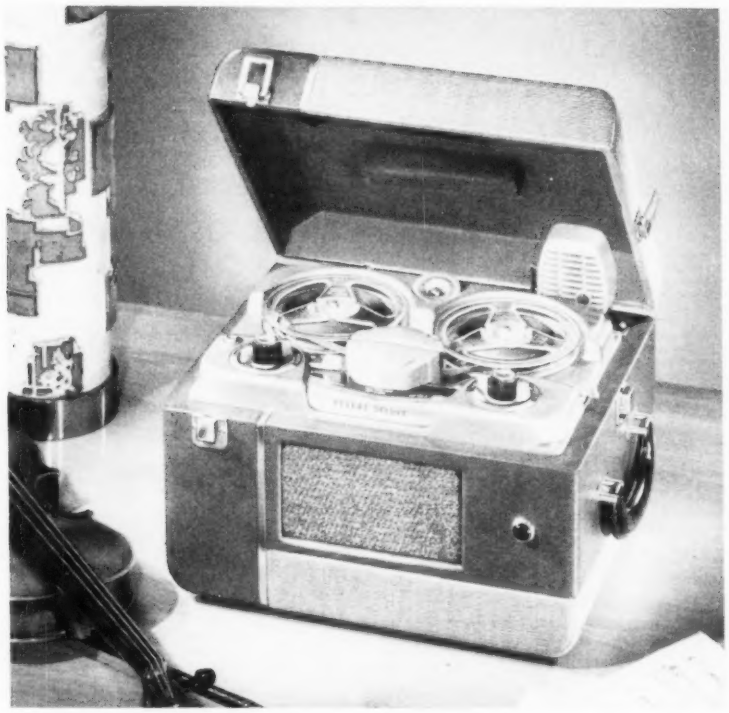

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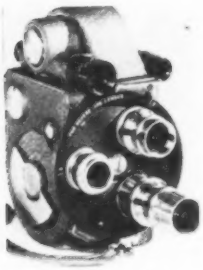
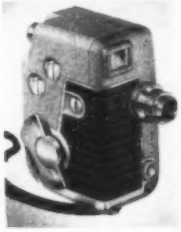


lenses and extra optical viewfinder for telephoto work; index mechanism positions lens. Price, with f/2.8 lens, $99.50 including tax; with f/1.9 lens in focusing mount, $122.50.

REVERE MODEL C-16

16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; coated 1-inch anastigmat f/2.5 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrector; ratchet-type wind. Price, $157.50 including tax; with f/1.9 lens in focusing mount, $182.50.

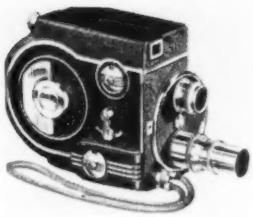
REVERE B-61



8 mm silent; magazine loading, 25 ft. capacity, double width; 12, 16, 32, and 48 frames per second; rotary shutter, speed of 1/35 sec. at 16 frames per second; single frame release; spring drive; positive start; rundown stop; useful run 11 ft.; dial footage indicator; built-in optical eye-level viewfinder with parallax correction; ½-inch f/2.5 coated lens; universal or fixed focus; interchangeable screw lens mount; built-in exposure guide; continuous run device; click stop Micromatic viewfinder adjustable for 3 lenses. Price, with plastic case, $116.50 including tax; with ½-inch f/1.9 lens and plastic case, $141.50 including tax; without case, $112.50 including tax; with f/1.9 lens without case, $137.50 including tax.

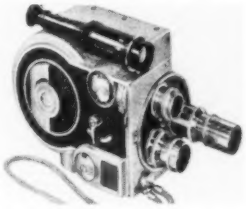
REVERE C-67

Same as the Revere C60 except has built-in eye-level finder and a 2-lens



turret rather than 3-lens turret; equipped with coated ½-inch f/2.8 lens. Price, $119.50 including tax; with f/1.9 lens in focusing mount, $144.50.

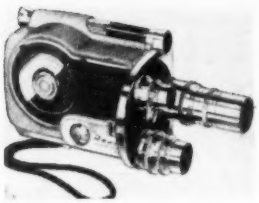
REVERE MODEL 60



Similar to Revere Model 70, except has 3-lens turret; micromatic built-in eye-level finder. Price, with ½" coated anastigmat f/2.8 lens with fixed-focus, $132.50 including tax; with f/1.9 lens in focusing mount, $157.50.

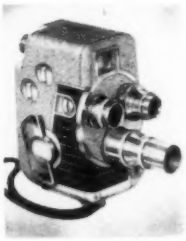
REVERE MODEL C-26

16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter, 1/35 sec. shutter speed at 16 frames per second; spring motor



drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; 3-lens turret; 1-inch coated anastigmat fixed-focus f/2.7 lens; built-in lens shade; built-in exposure guide; parallax correcter; ratchet-type wind; wrist-strap. Price, $187.50 including tax; with f/1.9 lens in focusing mount, $212.50.

REVERE B-63



Features identical to B-61, but has 3-lens turret. Price, with ½-inch f/2.8 coated lens, $142.50 including tax; with ½-inch f/1.9 coated lens, $167.50 including tax.

MFR., Revere Camera Co.

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ENLARGERS

AMATEX 35

Vertical; takes 35-mm film only; line voltage 110; coated 60-mm Corygon f/4.5 lens; single condenser; 150-watt opal enlarging lamp; helical focusing; 7-diameter enlargement at baseboard; operating controls at base of post; glass negative carrier; tilting negative carrier; built-in orange filter; film advance without handling roll; enlarger swings. Price, with lens, $74.95.

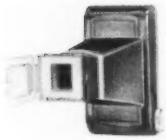
DIST., Burleigh Brooks Co.

BACO PRECISION

Vertical or horizontal; takes film size 2¼x3¼; condenser illumination; 3½-inch f/4.5 Ilex Paragon Anastigmat lens; rack-and-pinion focusing; large focusing knobs; metal negative carrier; built-in red screen for focusing; positive locking pins to hold assembly in position; switch on cord. Price, with lens, $69.50.

MFR., Baco Accessories Co.

CINELARGER 35mm



Camera-like device used to enlarge 35-mm and Bantam color slides to black-and-white negatives on No. 620 roll film; uses No. 2 floodlamp; built-in lens and shutters. Price, $16.95 plus tax.

MFR., Testrite Instrument Co., Inc.

CIPCO EVEREDI

Vertical; takes film sizes from 1x1½ to 1x¾; flashed opal diffusion illumination with 75-watt lamp on recommended line voltage of 110; ventilation by top shielded vents; 2-inch f/11 lens; 4-diameter enlargement on baseboard; fixed focus; metal negative carrier; film advance without removing roll; built-in red screen for focusing; control switch on cord; built-in-base easel. Price, $15.

MFR., Consolidated Instrument Parts Co.

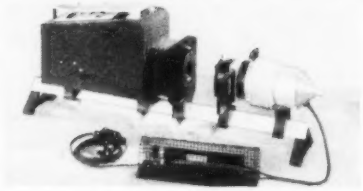
COMPCO 620

Vertical; takes film sizes from 35 mm to 2½x3½; opal diffusion illumination system; 150-watt standard enlarging lamp; 110-120 line voltage; natural draft ventilation; 3½-inch f/7.7 anastigmat lens; helical focusing; metal negative carrier; masks for 5 film sizes; film advance; snap action switch on cord; double channel uprights; steel baseboard. Price, $27.95. Accessories available include recessed lens board, carriers, masks, etc.

MFR., Compco Corporation.

CURTIS COLOR FILM ENLARGING PRINTER

Horizontal; takes 35-mm film size and enlarges to 4x5; designed for use as a contact printer, taking up to 4x5 negatives; 2-element condenser illumination system; 75-watt G-E No. 111 enlarging lamp; radiating aluminum fins ventilation; 2-inch f/4.5 Wollensak lens selected for color correction; 50-mm Leica or Contax lenses may be used when operating as printer; rack-and-pinion focusing; metal negative carrier; provision against Newton's



rings; distortion control. Price, including lens, filters, transparency mount, $182.

MFR., Curtis Laboratories, Inc.

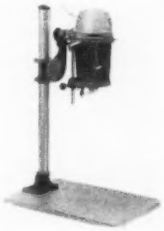
DEJUR VERSATILE KOOLITE I

Vertical; rotates to horizontal; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; illumination, 18-watt cold-cathode, 4500 K white lamp; 115 line voltage recommended; no ventilating provisions needed; coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens; 9 diameters enlargement on baseboard; smooth friction lens and negative focusing; metal and glass sandwich carriers; film advance without removing roll; lamp-housing swings to permit bigger enlargements; negative carrier tilt and whole head tilt for distortion control; built-in red filter; line switch in cord; adjustable negative positions; interchangeable lenses on lensboard; rotating negative carrier. Price, $126.50.

DEJUR VERSATILE KOOLITE II

Similar to Model I; takes film sizes from 35 mm to 2¼x3¼; does not have full distortion control or double bellows. Price, including coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens, $99.50. Accessories available for the Koolite enlargers include condenser head, camera backs, copying lights, color head, 3-color filter, etc.

DEJUR VERSATILE PROFESSIONAL KOOLITE



Vertical; rotates to horizontal position; takes film sizes from 35 mm to 4x5; flashed opal diffusion; illumination, 34-watt cold-cathode, 4500 K white lamp; 115 recommended line voltage; no ventilating provisions required; coated 5½-inch Chromtar anastigmat f/4.5 lens; 5½ diameters enlargement at the baseboard; lenses interchangeable on lensboard; positive friction focusing; glassless negative carrier; 10 carriers available; film advance without removing roll; lamp-housing swings to permit bigger enlargements; lens and head tilt for distortion control; built-in red mask; line switch in cord. Price, $172.50.

DEJUR VERSATILE I

Vertical or horizontal; takes film sizes from 35 mm to 2¼x3¼; 2-element condenser illumination system; G-E No. 211 lamp; coated 3½-inch Chromtar anastigmat f/4.5 lens; Aero Teck ventilation; 9 diameters enlargement at baseboard; friction lens focusing; metal negative carrier; adjustable negative position; distortion control with negative stage tilt; built-in red filter for focusing; line cord switch. Price, $139.50 including tax. Accessories include, color head, three color filters, copying lights, tripod clamp, camera support, camera back, lens boards for various lenses; Koolite head.

DEJUR VERSATILE II

Takes film sizes up to 2¼x3¼, similar to Model I, but does not have full distortion control or negative focusing. Price, with 3½-inch DeJur Chromtar anastigmat lens, $99.50; accessories same as Model I.

DEJUR PROFESSIONAL 4x5

Vertical or horizontal; takes film sizes from 35 mm to 4x5; 2-element condenser system; uses No. 211 opal bulb for illumination; Aero Teck ventilation; 5½-inch coated Chromtar anastigmat f/4.5 lens; friction focusing; metal negative carrier; provision against Newton's rings; distortion control by lens and head tilt; built-in red screen for focusing; line cord switch. Price, $172.50. Accessories the same as above models.

MFR., DeJur-Amsco Corp.

ELWOOD AM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x3¼; silvered reflector or condensing lamphouse optional; A23 opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich or glassless metal frame negative carrier; film advance without removing 35 mm roll; built-in red mask for focusing; micrometer screw focusing; distortion lens board furnished upon request. Price, with silvered reflector, $48 plus tax; price with double 5-inch condensers, $60 plus tax. Accessories include cold light, setback lens mount for 2-inch lenses, carriers, etc.

ELWOOD BM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x2½; single condenser illumination; 75-watt opal enlarging lamp; optional lens equipment; 10 diameter enlargements on baseboard; multiple thread lens barrel gives micrometer focusing; glassless metal negative carrier; film advance without removing roll; built-in red screen for focusing. Price, less lens, $30 plus tax. Accessories include longer main slide, cold light, negative carriers, lens extensions, set-back lens mounts.

ELWOOD SP-25 ANNIVERSARY MODEL

Vertical and horizontal; takes film sizes 35 mm to 5x7; 2-element condenser system or condensing reflector illumination; 200-watt enlarging lamps; heat absorbing glass; interchangeable lamp houses; for lenses of 5 to 7-inch focal length; no lens supplied; rack and pinion focusing; metal negative carrier; film advance without removing roll; 4 roller masks provided for masking negative in enlarger; lamp house tilts; tilting lens board; built-in red filter; color slide holds color

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Incident Light

EXPOSURE METER

In so many instances, there is one shot you want more than anything else. It would almost break your heart not to get it — perfectly! Don't be disappointed! Take a lesson from the tens of thousands of photographers who have discarded the old-fashioned method of exposure reading and who have switched to the **Norwood Director Exposure Meter** for sure, safe, satisfactory picture-taking.

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570 FIFTH AVENUE
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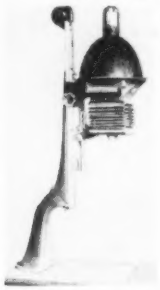
screens; interior metal parts coated with black cotton flock; enlargements up to 30x42 inches at baseboard; bellows extension of 17 inches; maximum negative to paper distance of 49 inches. Price, with condensing reflector, $118, plus tax; with 6½-inch double-mounted condensing lenses, $145, plus tax; with 8-inch double-mounted condensing lenses, $165, plus tax; with 10-inch condensing lenses, $188, plus tax. Available accessories include tilting and revolving table, distortion lens board, recessed lens board; condenser lenses, interchangeable lamp houses.

ELWOOD STUDIO S-2



Vertical; takes film sizes from 35 mm to 5x7; semi-diffusion illumination, silvered reflector; 100-watt opal enlarging lamp; 120 recommended line voltage; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; built-in red screen for focusing; built-in masking device; focusing spot in negative carrier; dual focusing; optional lens equipment. Price, less lens, $69 plus tax. Accessories same as above.

ELWOOD AUTOFOCUS 5x7

Vertical; takes film sizes up to 5x7; semi-diffusion illumination, silvered reflector; 200-watt opal enlarging lamp; 6⅜-inch f/4.5 coated anastigmat lens; 9 diameters enlargement on baseboard; autofocusing; switch on stand; glass sandwich negative carrier; lamp house tilts and swings; built-in red screen for focusing; built-in masking device. Price, $379.25 plus tax. Accessories include cold light, distortion lens board, set-back lens board, carriers, etc.

ELWOOD AUTOFOCUS 8x10

Vertical or horizontal; takes film sizes up to 8x10; silvered reflector; 200- to 500-watt opal enlarging lamp; 10-inch coated f/4.5 anastigmat lens; 5 diameters enlargement on baseboard; autofocus; glass sandwich negative carrier; switch on stand; built-in red screen for focusing; built-in masking device. Price, $713 plus tax. Accessories include the same as 5x7 model plus camera back attachment.

ELWOOD COMMERCIAL C-2

Vertical; takes film sizes from 35 mm to 8x10; semi-diffusion, silvered reflector; 200- to 500-watt opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; switch on stand; built-in red screen for focusing; built-in masking device; dual focusing; clamping handwheel focusing spot in negative carrier. Price, $243 less lens, plus tax. Accessories include distortion lens boards, set-back lens boards, lens extension, cold light, carriers, etc.
MFR., Elwood Pattern Works.

EXAKT 66

Vertical; takes film sizes from 35-mm to 2¼x2¼; double condenser lens assembly; 200-watt projection lamp; 110 line voltage; coated 80-mm f/4.5 Schneider Componar lens; click stops; helical focusing; optical rangefinder coupled to lens in use; 7-diameter enlargement at baseboard; operating controls at base of post; glass negative carrier with metal masks; condenser holds negative flat on carrier; tilting negative carrier; built-in orange filter; control switch on baseboard; film advance without handling roll; enlarger swings; rangefinder used for any size, on or off baseboard. Price, with lens, $169.50. Available accessories include lenses, color filter holder; soft focus lenses, reproduction adapter, extension tubes.

EXAKT 35

Similar to Exakt 66, but for 35-mm film only; double condenser assembly with matched coated 50-mm Rodenstock Ysar f/3.5 lens; 100-watt projection lamp; switch in line cord; single lever clutch for rapid control on single post. Price, with lens, $129.50. Available accessories include color filter holder, lenses, soft focus lenses, extension tubes.
DIST., Burleigh Brooks Co.

FEDERAL STORE-AWAY SENIOR 311

Vertical; takes film sizes from 35 mm to 2¼x3¼; single condenser system with diffusion plate; 75-watt No. 211 opal lamp; 120 line voltage recommended; 3½-inch Federal Octar f/4.5 lens; 8 diameters enlargement on baseboard; micrometer friction wheel focusing; convertible glass or metal negative carrier; provision against Newton's rings; masks included for 4 film sizes; film advance without removing roll; built-in red filter; switch on line cord; can be stored in carrying case; metal baseboard; built-in focusing target. Price, $69.25 including tax. Accessories include carrying case, 2-inch lens, metal negative carriers.

FEDERAL 450

Vertical; takes film sizes from 35 mm to 4x5; groundglass and opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 5½" f/4.5 anastigmat lens with iris diaphragm; 4½ diameter enlargement on baseboard; micrometer focusing; combination metal and glass negative carrier; controlled pressure prevents Newton's rings; masks for 7 film sizes; film advance without removing roll; distortion control by calibrated swivelhead; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counterbalanced; clutch on enlarger arm sleeve. Price, including tax, $109.50. Accessories include dustless metal negative plates, double condenser lens assembly.

FEDERAL 450-CL

Same as Model 450 except with Cold-Lite reflector dome; 32-watt circular fluorescent lamp for 105-125-volt a-c; can use any timing device. Price, with 5½-inch f/6.3 Octar lens, $110.50, inc tax; 2-inch f/4.5, 3½-inch f/4.5, and 3½-inch f/6.3 lenses available; counterbalance included.

"Puppy Love", by Charles McDowell, Birmingham, Ala. Enlarged from 2¼x3¼ Negative with a Federal Store-Away, Jr. Enlarger

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A kitchen or bathroom is "darkroom" enough for breathing life into your pet negatives with a ***Federal Store-Away***® Enlarger. No waste of precious minutes, either, getting your equipment assembled and, later, put away. The ***Federal Store-Away*** Junior Model 269 can be set up in 39 seconds, and re-packed in even less time. The compact case holding complete enlarger with sectional upright post is only 6"x15"x16" and can be stored in a convenient corner or on a shelf.

This enlarger takes all negatives up to 2¼ x 3¼, and gives magnifications from 1½ to 7 diameters. Handsomely constructed, a precision instrument, as rigid and rapid, as easy and smooth to operate, as enlargers costing twice as much. Easel brightness is uniform and exposures short, even with the f:6.3 Decar lens stopped down. Supplied with diffused illumination. (Condenser or Cold-Lite models also available.) Ideal for direct-positive-paper black-and-white enlargements from color transparencies.

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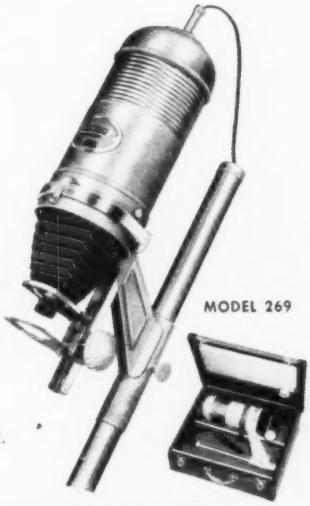

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FEDERAL 470

This model is exactly the same as the 450 Model except that it has a combination 2-element condenser and sand-blasted light distribution plate illumination; 75-watt opal enlarging lamp. Price, including 5½-inch f/4.5 lens and tax, $129.50. Accessories include dustless metal plates in all popular sizes.

FEDERAL 269 STORE-AWAY JR.

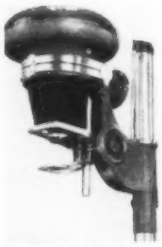
Vertical; takes film sizes from 35 mm to 2¼x3¼; groundglass and flashed opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 3½-inch f/6.3 Decar anastigmat lens in iris diaphragm; 7 diameters enlargement on baseboard; metal and glass negative carrier; pressure control prevents Newton's rings; masks included for four film sizes; film advance without removing roll; lamp house swings and tilts; line cord switch; focusing target. Price, $39.75 including tax. Accessories include, carrying case, single condenser lens assembly, 2-inch and 3½-inch lenses, dustless negative carrier, etc.

FEDERAL 269-CL STORE-AWAY

Same as Model 269, except with Cold-Lite reflector dome; 22-watt circular fluorescent lamp; for 105-125-volt a-c; can use any timing device. Price, with 3½-inch f/6.3 Decar anastigmat lens, $53, inc. tax; accessories include case, dustless negative carrier, 2-inch lens.

FEDERAL 279 STORE-AWAY JR.

This model is identical with Model 269, with the exception of the illumination system; it has combination single-element condenser and sandblasted light distribution plate illumination with a 75-watt opal enlarging lamp. Price, including tax, $46.95. Accessories the same as for model 269.



FEDERAL 315-CL

Vertical or horizontal; takes film sizes from 35-mm to 2¼x3¼; 7 diameters enlargement on baseboard; micrometer focusing; metal and glass negative carrier; pressure controlled carrier prevents Newton's rings; masks included for 4 film sizes; film advance without removing roll; calibrated swivel head; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counterbalanced clutch on enlarger arm sleeve. Price, including tax, $80. Accessories include dustless negative carriers, etc.

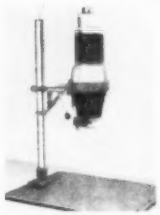
FEDERAL 135 STORE-AWAY MINIATURE

Vertical; takes 35-mm and 828 film; 2-element condenser system; 50-watt No. 113 lamp; heat-absorbing glass; for 120-volt a-c or d-c; 2-inch f/4.5 coated Decar lens in iris diaphragm; micrometer focusing; 14 diameters enlargement on baseboard; dustless metal negative carriers; provisions against Newton's

rings; masking plates supplied for 2 film sizes, built-in red filter; sectional post. Price with lens, $49.95 inc. tax Accessories available including carrying case, 3½-inch f/4.5, and 3½-inch f/6.3 lenses.

MFR., Federal Mfg. & Eng. Corp.

FOTOLARGER C



Vertical; takes film sizes from 35 mm to 2¼x3¼; 2-element condenser system; uses No. 211 enlarging lamp; 110-120 line voltage recommended; friction focusing; metal, rotating negative carrier; film advance without removing roll; lamp-housing tilts to permit bigger enlargements; built-in red filter, metal baseboard, split store-a-way pole. Price, $31.50. Accessories include enlarger stand, lenses, carriers, split-pole upright, lens boards, etc.

FOTOLARGER D

Similar to Model C flashed opal diffusion system; uses No. 211 opal enlarging bulb; friction focusing; rotating, glassless negative carrier 16x19 metal baseboard. Price, without enlarger stand illustrated, $24.50. Accessories include enlarger stand, $8.50; negative carriers, lensboards, lenses, condensers, etc.

FOTOLARGER 100-C

Vertical; takes film sizes 35-mm to 4x5; 2-element condenser system; 150-watt No. 212 opal enlarging lamp; vents in lamp house; 135-mm f/4.5 Elgeet coated lens; click stops; 16x19 enlargements at baseboard; friction focusing; metal negative carrier; one mask included, any size; rollfilm advance without removing roll; lamp house tilts and swings; built-in red filter; control switch in line. Price, without lens, $54.50; with lens, $87.50. Accessories available include counter-balance, any size negative carriers, and 90-mm f/4.5 coated Elgeet lens.

FOTOLARGER 100-D

Similar to Model 100-C, except has diffusion system; uses same lenses; has rotating negative carrier, and removable lens board; all other features same. Price, without lens, $54.50, plus tax; with lens, $87.50, plus tax. Accessories same as for Model 100-C.

MFR., Testrite Instrument Co., Inc.

FUGUI MODEL II

Vertical; takes film size 35 mm to 2¼x3¼; 2-element condenser system; vents in lamp house; f/4.5 coated lens; click stops; autofocus; provisions against Newton's rings; masks for all film sizes; film advance without removing roll; lamp house tilts and swings; distortion control; built-in red filter; baseboard switch; 70-mm f/3.5 lens included. Price, $89.50, plus tax.

DIST., Cinema Products.

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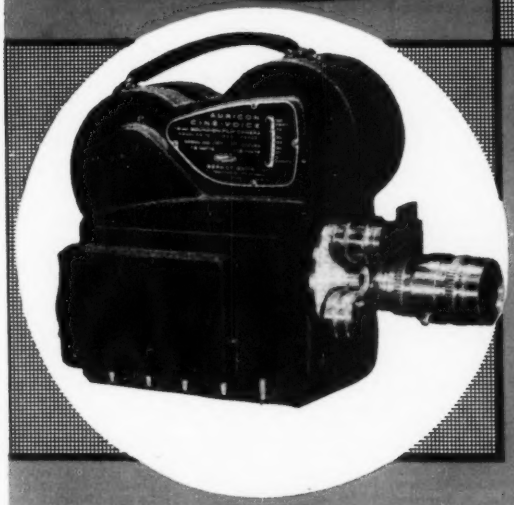

AURICON Cine-Voice

The Home Movie Camera . . . with Hollywood Sound! You can produce 16mm Talking Pictures. The Cine-Voice camera photographs a sound track alongside of the picture, on the same film at the same time. The processed film will play on any 16mm sound projector perfectly lip-synchronized. This is a light weight, high fidelity system which operates from house current, car battery or portable power pack. Film cost, either black and white or Kodachrome, is identical to silent film. The Cine-Voice is as easy to operate as tuning a radio, yet the superb quality of this precision Berndt-Bach product is attested by its wide usage in television and many other professional fields. You get the complete outfit — ready to operate — including amplifier, microphone, headphones and portable carrying case. Lenses, only, are additional (standard "C" mount, same as most 16mm cameras).

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The incomparable 1952 model brings a new fully flash synchronized shutter, plus all the time-tested features which place the "Rollei" at the head of its class. Prices include lens cap, cable release and case. With Xenar Ctd. F3.5 lens $265. Cash or $26.50 Down; with Tessar Ctd. F3.5 lens $285. Cash or $28.50 Down.

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The ultimate among fine 35mm cameras! The new Leica III F brings a fully flash synchronized shutter. Choice of 3 50mm lenses: Elmar Ctd. F3.5 $278.80. Cash or $27.88 Down; Summitar Ctd. F2.0 $384.20 Cash or $38.42 Down; Summarit Ctd. F1.5 $469.20 Cash or $46.92 Down.

Pacemaker "45"

America's most popular press camera...focal plane (as well as between-the-lens) shutter with governed speeds to 1/1000 sec., tilting front and double extension bellows. The Graphic is trigger fast and versatile indeed! With Ektar Ctd. F4.7 lens $224. Cash or $22.40 Down.

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Linhof means the finest. This is equipment for the photographic perfectionist. Includes the unique Multi-focus Rangefinder, and Xenar Ctd. F4.5 lens in compur synchronized shutter. $375.75 Cash or $37.57 Down. (Many other lens combinations, as well as the new 2¼ x 3¼ and 5 x 7 Linhofs are available from Dowling's)

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MINOX

Maximum performance with minimum space in this little gem—weighing 2½ ounces and measuring 3" in length! Chronometer-like reliability with shutter speeds from ½ to 1/1000 sec., automatic film transport, focusing down to 8", 50 exposures on black and white or 25 on color. Improved Ctd. F3.5 lens. $129.50 Cash or $12.95 Down.

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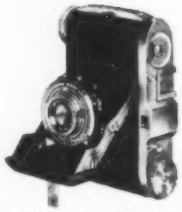

No larger than 2 packs of cigarettes, but what a wonderful 35mm camera. Latest, fully synchronized M.F.X. Prontor SV shutter. Built-in self-timer. 9 speeds from 1 sec. to 1/300th. Double exposure prevention. Automatic film stop and counter. Body shutter release. Built-in telescopic finder. Accessory clip. Fully corrected, coated 2" Radionar f3.5 lens. ***$49.95** List.*

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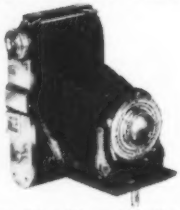

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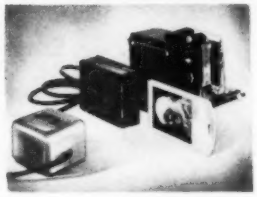
GRAFLARGER BACK



Enlarging head and back for press-type cameras; fits sizes 2¼x2¼, 2¼x3¼, 3¼x4¼, 4x5; flashed opal illumination system; 75-watt cold cathode Aristo Grid Lite fluorescent lamp; for line voltage of 110; metal negative carrier; for adapting camera to enlarger use. Price, $38.75, inc. tax.
MFR., Graflex, Inc.

JIFFY PHOTO ENLARGER MODEL 211

Horizontal; takes film sizes from 35 mm to 2¼x3¼; opal diffusion illumination; 75-watt G-E 211 lamp; no overheating in 24 hr. continuous use; 85 mm f/11 lens with friction focusing; glass sandwich negative carrier; special 35-mm holder; masks for all film sizes; film advance device; control switch on cord; easel for 5x7 paper, adjustable smaller; Price, $9.95 complete. Accessories include long focal length lens, 8x10 easel, etc.
MFR., A P Products.

KODAK AUTO-FOCUS—MODEL E

Vertical; takes up to 5x7 film and plates; ground and sandblasted glass diffusion illumination; G-E No. 302 500-watt opal enlarging lamp; ventilation provision; 7½-inch coated f/4.5 Kodak Ektanon Enlarging lens; click stops; 4 diameters enlargement on baseboard; combination glass sandwich and metal frame negative carrier; built-in mask adjustable from 35 mm to 5x7; foot switch; 17x20 enlarging easel; diffusing disc holder; graduated scale on two sides of paper easel; lens diaphragm illuminator on lens board. Price, $450 plus tax.

KODAK FLUROLITE

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as movie titler, slidemaker, view camera, and copy unit also; "integrating-sphere" type system with 22-watt circular fluorescent lamp; trapezoidal bi-rail frame; micrometer focusing and elevation; circular bellows; tilting back with zero indicator for distortion control; lighttight cabinet for film and paper built-in baseboard; available lenses include 2-, 3-, and 4-inch Kodak Enlarging Ektanon f/4.5 and Ektar f/4.5 lenses; rotary negative carrier; film advance without removing roll; built-in filter holder. Price, $112.50 including tax.

KODAK HOBBYIST

Vertical; takes film sizes from 35 mm to 2¼x3¼; "integrating-sphere" type system with 22-watt circular fluorescent lamp; coated 89-mm Kodak Enlarging Ektanon f/6.3 lens supplied; click stops; 7 diameters enlargement at baseboard; friction focusing; rotary negative carrier. Price, $49.50 including tax.

MFR., Eastman Kodak Co.

LEITZ FOCOMAT I-C

Takes film sizes from 1x 1½ to 40x40 mm; single-element condenser enlarger; uses 75-watt opal lamp; 110 line voltage; coated 50-mm anastigmat f/3.5 lens with click stops; 10 diameters enlargement at baseboard; manual and automatic focusing; glass sandwich and metal negative carriers; provisions against Newton's rings; film advance without removing roll; lamp-house tilts to permit bigger enlargements; distortion control; built in red filter; control switch on baseboard. Price, $147, including tax.
DIST., E. Leitz, Inc.

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MAGNAR 66

Vertical; takes film size from 35 mm to 2¼x2¼; designed for use as projector also; single condenser system; uses 75-watt No. 211 enlarging lamp; 110 recommended line voltage; thermaldraft ventilation; 3-inch Ilex f/4.5 lens supplied; 8½ diameters at baseboard; helical focusing; metal negative carrier; film advance without removing roll; lamp-housing swings to permit bigger enlargements; tilting head for distortion control; built-in red filter; 2¼x2¼ red film carrier. Price, $49.75 including tax. Accessories include glassless negative carrier.

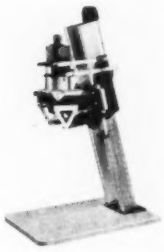
MFR., Kay Photographic Co.

MINOX

Vertical; takes Minox film (8.5 mm) and 16-mm film; single-condenser system; 30-watt, 6-volt lamp; built-in transformer in baseboard with taps for 110, 120, 160, 220, and 240-volt circuits; coated 15-mm f/3.5 anastigmat lens; 17 diameters enlargement at baseboard; rotating lamp house; film advance without removing roll. Price, $147.50, inc. tax. Snap-on easels in 4 sizes available at $2.40 each, inc. tax.

DIST., Minox, Inc.

OMEGA B-4

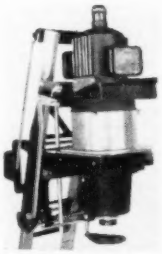


Vertical; takes film sizes from 35 mm to 2¼x3¼, double condenser system; 110 line voltage recommended; 75-watt enlarging lamp; optional lens equipment from 2 to 3½-inch focal length; rotating negative holder; manual focusing; enlarger turns 180 degrees to make bigger enlargements; built-in red filter. Price, $116.08 inc. tax.

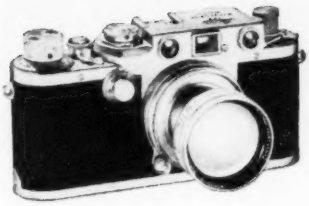
AUTOMEGA B-3

Vertical; takes film sizes from 35 mm to 2¼x3¼; triple condenser system; 110 line voltage recommended; 75-watt enlarging lamp; optional lens equipment ranging from 2 to 4-inch focal lengths; up to 15 diameters enlargement on baseboard; automatic focusing, color head; rotating negative carrier; 18x27 baseboard; enlarger can be revolved 180 degrees. Price, $175.35 including tax, but not lens mount and track.

OMEGA D II



Vertical; takes film sizes from 35 mm to 4x5; 2-element condenser illumination system; 75-watt opal enlarging bulb; recommended line voltage 110; dynathermal ventilation; optional lens equipment; from 4½ to 16 diameter enlargement on baseboard; micrometer focusing; metal and glass sandwich negative carriers; provisions against Newton's rings; built-in red screen for focusing; interline control switch. Price, with color head, $214.08 inc. tax; without color head, $196.58 inc. tax. Accessories include copy attachment, micro attachment, cold light head.



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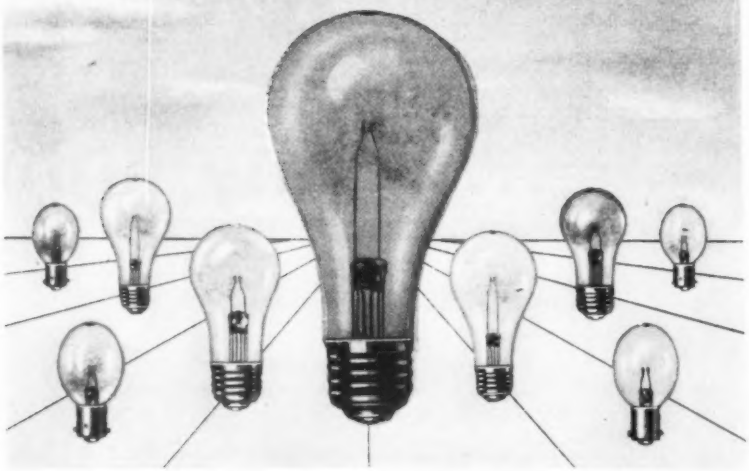

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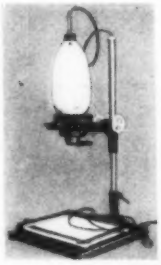
AUTOMEGA E-3

Vertical; takes film sizes from 2¼x3¼ to 5x7; opal diffusion illumination with 6W low voltage fluorescent lamp; recommended line voltage 110; optional lens equipment; up to 9 diameter enlargement on baseboard; automatic focusing; metal and glass sandwich negative carriers; distortion control by negative tilting; built-in red screen for focusing; electric shutter; color head; rotating lamphousing. Price, without lens or track, $379.17, inc. tax. Accessories include copy attachment, manual focusing attachment, tilting easel board, etc.

MFR., Simmon Brothers, Inc.

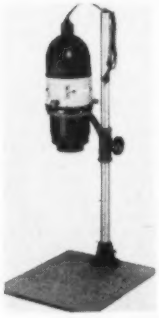
PHOTAX



Vertical; takes film sizes 35 mm to 2¼x3¼; diffusion type; metal; wood baseboard; Dallmeyer 2-inch f/3.5, and 3 and 4-inch f/4.5 lenses available; friction focusing; 16 diameters enlargement at baseboard; lamp house swings; baseboard switch; 20½x21-inch baseboard. Price, $69.95, inc. tax.

DIST., General Photographic Supply Co.

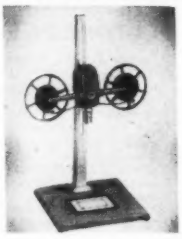
PRECISE 160A



Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses No. 211 enlarging lamp; 110-115 line voltage recommended; 3½-inch Acromatic f/7.1 lens with Waterhouse stops; click stops; 5 diameters enlargement at baseboard; manual focusing; metal negative carrier; film advance without removing roll; lamp-house swings to permit bigger enlargements; built-in red filter; masks included for all sizes. Price, $20 including tax.

MFR., American Photo Laboratory.

REVERE ENLARGER-VIEWER



Vertical; takes film sizes 8 or 16-mm movie film; designed for use with Gevaert Diaversal direct positive paper for making prints; 1-element condenser system; 30-watt clear lamp; 110-120-volt a-c or d-c line voltage; uses camera lens mounted in fitting; knurled knob focusing; sprocketed film track instead of negative carrier; control switch in line cord; can be reversed on standard for floor projection from table height; unit includes kit containing yellow-green safelight, Gevaert Diaversal paper, plastic trays, processing solutions, sponges, and two-sided gummed tape; can also be used as movie viewer. Price, for 8-mm size, $37.50 including tax, for 16-mm size, $39.50 including tax; prices include wood baseboard, metal standard, and rewinds.

MFR., Revere Camera Co.

SALTZMAN 30 WRC

Vertical; takes film sizes up to 5x7; condenser type; 4½-inch seamless steel tubular column; cast iron base; built-in cut-offs for framing; double focusing slides; lensboard tips and tilts, with vernier scales; snaplocks at zero tip and tilt position; control to focus lamp; automatic focusing with camera and lens motion; equipped with 500-watt enlarging lamp; 30x30 baseboard; all operating

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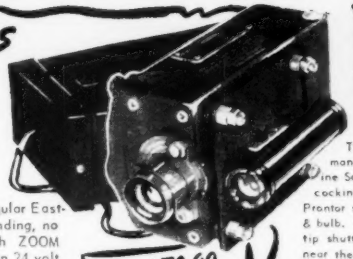
16MM CAMERA



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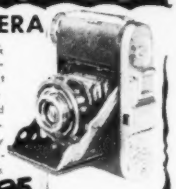

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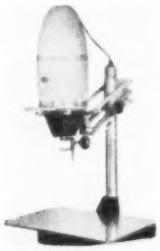
MFR., J. G. Saltzman, Inc.

SOLAR 57

Vertical, can be used horizontally; takes film sizes from 35 mm to 5x7; designed for use as a projector; groundglass diffusion illumination: 150 watt on 115 line voltage; optional lens equipment; rack-and-pinion focusing; glass or metal negative carrier; provision against Newton's rings; lamp house tilts and swings; distortion control; built-in red screen for focusing; toggle switch on table top; non-actinic baseboard. Price, without lens, $86.50. Accessories include camera back, microscope adapter, carriers, copy stand, etc.

SOLAR 57 HC



Vertical; takes film sizes from 35 mm to 5x7; 2-condenser system; 150-watt enlarging lamp; 110-120 recommended line voltage; optional lens equipment; rack-and-pinion focusing metal and glass sandwich negative carriers; provision against Newton's rings; lamp-housing swings to permit bigger enlargements; distortion control; built-in red filter; toggle switch built in baseboard; heavy base casting; parallel supporting arms for lamp-house; focusing arrangement for user to select focusing range relative to focal length of lens being used. Price, $249.50.

SOLAR 45C

Vertical, can be used horizontally; takes film sizes from 35 mm to 4x5; designed for use as a projector; 2-element condenser illumination system; optional lens equipment; rack-and-pinion focusing; metal negative carrier; movable lamp housing; toggle switch on table top; double-extension bellows. Price, without lens, $129.50. Accessories same as for Solar 120 model.

SOLAR 45D

Similar to Model 45C; diffusion-type unit with Solar light equalizers; optional lens equipment; provision against Newton's rings; distortion control. Price, $86.50.

SOLAR 120

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as a projector also; 2-element condenser illumination; 150 watts; optional lens equipment; rack-and-pinion focusing; metal negative carrier; masks included for 2¼x3¼ film size or whatever size requested; film advance without removing roll; lamp-housing tilts and swings; table-top toggle switch; double extension bellows: oversize condensers; interchangeable lenses. Price, without lens, $66.50. Accessories include camera back, microscope adapter, copy stand, wall bracket, and lenses.

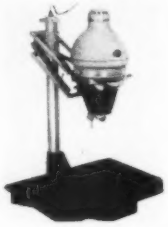
SOLARMATIC 120

Vertical; takes film sizes from 35-mm to 2¼x3¼; 2-element condenser illumination; 8 diameter enlargement at baseboard; dustless negative carrier; leather bellows; 20x27 baseboard; tabletop switch; can swing horizontally. Price, less lens, $116. Choice of lenses available.

SOLARMATIC 4x5

Vertical; diffusion illumination; takes film sizes up to 4x5; dustless negative carrier; non-actinic baseboard; rack and pinion focusing; leather bellows. Price, less lens, $132.50. Choice of lenses available.

SOLAR 45QL



Vertical; takes film sizes from 35 mm to 4x5; 2-condenser system; 150-watt enlarging lamp; 110-120 line voltage recommended; self-ventilating housing; optional lens equipment; rack-and-pinion focusing; special quick-loading negative carrier arrangement; distortion control; built-in red filter; parallel arm supporting system; toggle switch in baseboard; 24x32 baseboard. Price, $219.50.

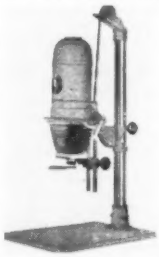
SOLAR AUTO-FOCUS

Vertical; takes film sizes from 35-mm to 2¼x3¼; 2-element condenser illumination; 8 diameter magnification at baseboard; 150-watt enlarging lamp; counterbalanced enlarging head; equipped with 3½-inch f/4.5 coated anastigmat lens; heavy base casting; magnification scale on side of enlarger head; leather bellows; dustless negative carrier; tabletop switch. Price, $139.50.

PRESS SOLAR 4x5

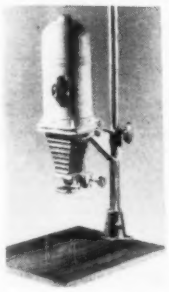
Vertical; takes film sizes up to 4x5; 2-element condenser illumination; automatic focusing counterbalanced enlarger head; dustless negative carrier; 3-inch tubular steel column; heavy base casting; leather bellows; 6¼ diameter magnification at baseboard; baseboard 24x30; 150-watt enlarging lamp; baseboard switch; equipped with coated 5¼-inch f/4.5 lens. Price, $298.50.
MFR., Burke & James, Inc.

SUN RAY MASTERCRAFT 45



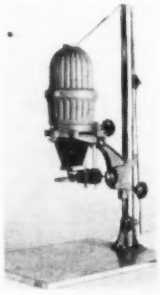
Vertical; takes film sizes from 35 mm to 4x5; combination condenser-diffusion system; 75-watt opal enlarging lamp; uses coated 135-mm Wollensak anastigmat f/4.5 lens; rack-and-pinion focusing metal negative carrier; lamp-housing swings to permit bigger enlargements; built-in red filter; switch on line cord. Price, less lens, $99.50.

SUN RAY MASTERCRAFT 23



Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses 75-watt enlarging lamp; 3½-inch f/6.3 Ilex enlarging lens; 16 diameters on baseboard; micrometer focusing; glass sandwich negative carrier; masks included for assorted film sizes; built-in red screen for focusing; Price, $42.50, including glass pressure plates and 6 assorted fibre masks. Accessories available include glassless masks, and condensers.

SUN RAY ARNOLD MODEL D



Vertical and horizontal; takes film sizes from 35 mm to 2¼x3¼; designed for use also as a projector; has combination 2-element condenser, and opal diffusion illumination; uses 75-watt enlarging lamp; 3½-inch f/4.5 Ilex enlarging lens; 16 diameters obtainable on baseboard; micrometer focusing; metal negative carrier; masks for 2¼x3¼ film sizes; film advance without removing roll; lamp house swings and tilts; built-in distortion control; built-in red mask for focusing; open jaw, counterbalance spring. Price, with lens, $79.50. Various glassless masks available as accessories.
MFR., Sun Ray Photo Corp.

ENLARGING EASELS

AIREQUIPT DIALMASTER

Takes up to 14x17 inch paper; all-metal construction; borders adjustable from 3/16 to ¾ inch; automatic 3/16-inch borders on 14x17 size; self-aligning masking bands; Silent Assistant adjusts top margin and left margin with twist of the dial; rubber, non-skid base. Price, $17.06.

AIREQUIPT 4-WAY

Takes 4 paper sizes, 2½x3½, 4x5, 5x7, and 8x10; all metal construction; built-in paper stops with a fixed frame for ¼-inch margins. Price, $8.07.

MFR., Airequipt Mfg. Co.

ARTCO BORDERLESS

Available for 8x10 and 11x14 paper; metal easel with composition holder; uses entire paper area; flat surface with holes backed by adhesive patches. Price, 8x10 size, $3.00 including tax; 11x14 size, $3.85, including tax.

MFR., Artcrafters Industries.

ARKAY EASY-EASEL

Takes prints up to 11x14; all-metal construction; scale on masking arms; automatic sharp borders; paper inserted from right edge while platen is depressed by platen lever on side of easel. Price, $8.25; 5x7 Easy-Easel available at $5.95.

MFR., Arkay Corp.

COLOR REGISTRATION EASEL MODEL B

Designed for accuracy and simplicity of registration in the Dye Transfer Process; consists of registering-punching Plexiglas board and ¼-inch plate glass transfer board; pin system of registration use with allowance for expansion of matrices; stainless steel punch bar. Price, 11x14 size, $39.50 plus tax; 16x20 size, $55.20. Pan Matrix Board for transfer; ¼-inch plate glass with inserted pins to fit Pan Matrix film. Price, up to 8x10, $13.50 plus tax; up to 16x20, $16.80.

MFR., Condit Mfg. Co.

DANDY EASEL

Takes paper sizes up to 11x14; all metal construction; scale on side arms; all-around adjustable borders from ¼ to 1¾; movable paper holder finished in durable white for focusing; washable surface. Price, $12.

DIST., Willoughby's.

DE GROFF TWO WAY PUSH

Takes paper sizes up to 11x14; all aluminum construction with chrome rail and spring steel masking strips; scale on side arms; automatic self-centering easel; instant interchangeability to glass for borderless prints; fixed masks for prints with standard size borders; adjustable mask strips for borders from 3/16-inch size and larger. Price, $24.75.

MFR., Burke & James, Inc.

EASOMATIC PRODUCTION EASEL

Two sizes, 5x7 and 8x10; wood and plastic construction; no scales; ⅛-inch borders; permits fast printing in quantity. Price of 8x10 is $10.50, plus tax; 5x7 is $7.20, plus tax.

MFR., B. M. D. Manufacturing Co.

FR AUTOMATIC

Takes paper sizes up to 11x14; laminated base, all-metal parts finished in polished aluminum or crackle finish; scale on masking arms; arms are directly geared; no locking or unlocking necessary; turn knobs to adjust margins; all-around adjustable borders from ¼ to 2 inches; a "third" knob permits automatic setting of top and left hand margins simultaneously; a "third" hand grasps paper when mask is lowered and holds it while easel is being closed. Price, including tax, $27.

MFR., The FR Corporation.

G & R MINIATURE ENLARGING EASEL

Takes paper sizes up to 8x10; brass, steel construction with lamicoid felt; fixed opening and paper guides for accurateness and speed; numbers while you print; opening and border to order; 75 different sizes. Price varies up to $56 including tax.

MFR., Goetz & Ruschmann.

KA-I-KO

Takes paper sizes up to 11x14; wood and metal construction; baseboard ruled scale; all-around borders adjustable from ¼ to 2 inches; white focusing base. Price, $5.95 including tax.

MFR., U. S. Photo Equipment Corp.

KODAK 11x14 MASKING EASEL

Metal and masonite construction; takes paper sizes up to 11x14; 2-inch masking arms; spring mechanism holds arms in position; masonite base with felt-coated bottom; support holds up masking arms while paper is inserted; adjustable margins of any size between ¼ and ¾ inches. Price, $19.75, inc. tax.

MFR., Eastman Kodak Co.

PRECISE NO. 20

Takes paper sizes up to 11x14; all metal construction; baseboard-ruled scale in 1/16 inches; all-around borders adjustable from ¾ to 1½ inches; baked japanned baseboard with white focusing surface; instantly adjustable masking bands. Price, $6.75 including tax.

MFR., American Photo Laboratory.

PREMIER SENIOR

Takes paper sizes up to 11x14; all-metal construction with aluminum base covered by felt pad; scale on side arms; surface coated white for focusing; automatic paper clamp engages paper when frame is lowered to hold paper in place; margin control permits independent adjustment of horizontal and vertical borders. Price, $9.50 plus tax.

PREMIER JUNIOR

Identical to the above, except that it takes paper sizes up to 8x10. Price, $8 plus tax.

MFR., Photo Materials Co.

RADIANT 810

Takes paper sizes up to 8x10; adjustments from ⅛ to ½ inch; wood baseboard; scales in ⅛-inch graduations; steel masking bands; self-aligning positive masking; skid-proof felt base. Price, $9.95 including tax.

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See the Bolsey — try it — then *compare!* Combines more *important* features than any other camera in its class. That's why 6 out of 10 buy Bolsey on the recommendation of satisfied owners!

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RADIANT 1114

Takes paper sizes up to 11x14; steel baseboard; scale on steel frame; self-adjusting masking band; Sta-tight slot to hold paper; positive lever for margin adjustment from 1/8 to 1 1/2 inches; skid-proof base. Price $11.95 including tax.

RADIANT AUTOMATIC

Takes paper sizes up to 11x14; margins from 1/8 to 1 1/2 inches; automatic paper centering; channels for all paper sizes; self-centering masking bands; special masking arms; scale on frame. Price, $23.95 including tax.
MFR., Radiant Specialty Corp.

RELHAM SPRINGFRAME

Two models to take paper sizes up to 8x10 or 5x7; hardwood base with washable plastic focusing surface; fixed-border easel; supplied with steel springframes which correspond with popular paper sizes; frames are interchangeable. Price, 8x10 model with 7 frames, $7.20 including tax; 5x7 model with 5 frames, $4.80 including tax. Special sizes on request.
MFR., Relham Products Co.

SAUNDERS MODEL E

Takes paper sizes up to 14x17; all metal construction; adjustable from 1 3/4x1 3/4 inches up to 14x17 inches; constant center; border adjustment by calibrated scale on individual blade; basket-weave blades hold paper flat; paper slots automatically hold-open click stop for paper insertion. Price, $22 plus tax.
MFR., Saunders Company.

SPEED-EZ-EL

All metal construction; requires no adjustments; paper inserted from either end to provide even borders; critical focus on easel; washable mat surface. Prices, for 2 1/2x3 1/2, $1.40; 3 1/2x5, $1.55; 4x5, $1.70; 5x7, $2.35; 8x10, $3.35, and 11x14, $4.45. Special sizes quoted on request.
MFR., A. J. Ganz Co.

SUN RAY MODEL 4

Takes paper sizes up to 8x10; all-metal construction; scale on side arms; widths of all-around borders available from 1/4 inch up; steel masking bands; white enamel base for focusing. Price, $4.95 including tax. Model 5 same as above, but takes paper sizes up to 11x14 inches; price, $4.95.
MFR., Sun Ray Photo Co., Inc.

TOWER 8X10

Takes sizes up to and including 8x10; all-metal frame construction; paper clamps controlled by opening and closing printing frame; wood baseboard; smooth finish; positive masking; scaled in 1/8-inch graduations on steel masking bands. Price, $8.50.

TOWER 11x14

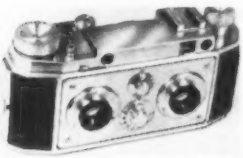
Takes sizes up to and including 11x14. Same features as 8x10; positive single-lever margin adjustment 1 1/4 to 1 1/2-inch. Price, $9.50.
DIST., Sears, Roebuck and Co.

STEREO

The items described below are stereo picture-taking and projecting equipment. For names of manufacturers and distributors who handle other stereo equipment such as viewers, binders, files, etc., see the appropriate listings in the Miscellaneous Photographic Equipment section starting on page 210.

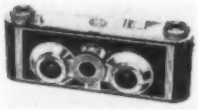
CAMERAS

BUSCH VERASCOPE F-40



Cartridge, 35 mm; stereoscopic camera; 21 exposures, 30x24 mm in stereo pairs, or 42 exposures, 30x24 mm in single shots; coated 40-mm Berthiot f/3.5 lens; guillotine-type shutter, speeds from 1 sec. to 1/250 sec., T & B; built-in flash synchronization; eye-level finder; coupled rangefinder focusing; exposure counter; coupled film advance and shutter cocking. Price, $269.50, inc. tax. All accessories available, including lens shade, filters, eveready case, and viewing and binding equipment.
MFR., Busch Camera Co.

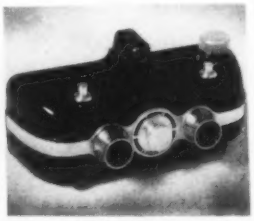
ILOCA STEREO II



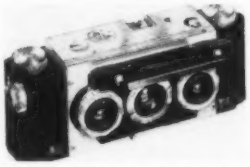
Cartridge 35 mm; 30 stereo pairs on a standard roll, 23x24 mm; matched f/3.5 coated 35-mm Ilitar lenses in shutter mounts; depth of field scale; Prontor S shutters, 1 to 1/300 sec., & B; built-in flash synchronization; delayed action timer; all controls coupled; center-wheel focusing; double-exposure prevention; optical eye-level finder; manual focusing; all-metal camera construction; exposure counter; removable back. Price, $125, inc. tax; eveready case, $12.
DIST., Ercona Camera Corp.

KEYS STEREO CAMERA

Rollfilm size 828; 6 stereo pairs or 12 single exposures; fixed focus f/8 lenses; simultaneous dual shutter, 1/50 sec.; eye-level viewfinder. Price, $27.20, inc. tax; case, $4.95.
MFR., Keys Stereo Products.



STEREO REALIST



Cartridge 35 mm; up to 29 sets of stereo exposures; two-lens stereoscopic camera; 35-mm coated David White Co. anastigmat f/3.5 lens; ring set, gear-retarded shutter; speeds from 1 sec. to 1/150 sec., T & B; built-in synchronization; eye-level finder; scale focusing; coupled split field military-type rangefinder; hyperfocal distance table; depth of field guide; exposure counter. Price on request. Complete accessories available.

STEREO REALIST MODEL ST42

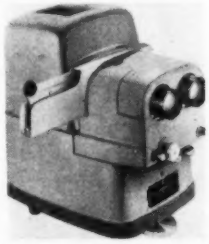
Same as Model ST41 except for matched f/2.8 coated Kodak Ektar four-element lenses; shutter speeds from 1 to 1/200 sec., T & B. Price, $227.50; case $11.25.
MFR., David White Sales Co.

VIDEON

Cartridge 35-mm; 16 or 29 23x24-mm stereo pairs; matched coated 35-mm Ilex Triplet f/3.5 lenses; depth of field scale; matched Ilex stereo shutters, speeds 1/10 to 1/100 sec., T & B; built-in synchronization; eye-level viewfinder; manual focusing; ever-eady case; Price, $97.48; case, $14.75.
DIST., Videon Camera Sales.

PROJECTOR

TDC STEREO VIVID

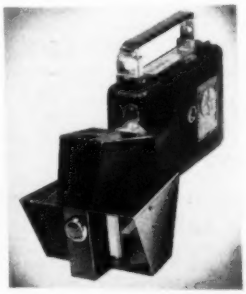


Takes Stereo-Realist slides and other 35-mm stereo slides; also takes standard 2x2 slides for regular projection; has dual projection system with matched coated 5-inch anastigmat f/3.5 lenses for three-dimensional projection in color; lenses simultaneously focused with compensating adjustments; 2 500-watt lamps with dual condensing system and independent light controls (larger lamps may be used); blower-and-duct cooling system; a-c operation only. Price, $175, inc. tax; case, $20. Stereo Vivid with 4-inch lenses, $185, models for d-c use available at extra charge of $10. Accessories include Polaroid plastic spectacles, $2; Polaroid cardboard viewers with earpieces, $.35.
MFR., Three Dimension Co.

CONVERTERS

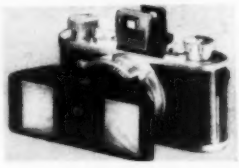
NORD

Movie stereo converter for 16-mm movie cameras; fits over taking lens; does not affect normal picture-taking procedure except for increase of 2/3 stop in exposure; produces vertical format stereo pairs. Price, $45; bracket, $8; prices do not include tax.



Stereo converter for 16-mm movie projectors; for use in projecting movie footage exposed in conjunction with use of Nord stereo movie converter; placed in front of projector, mounted on stand, supplied. Price, $23; stereo screen available, $7.50, prices do not include tax.
MFR., The Nord Co.

STEREO-TACH



Stereo converter for most still cameras up to 4x5 size; for use with lenses of normal focal length; attaches by use of Wratten filter adapter rings or with use of universal bracket, furnished; produces vertical stereo pairs. Price on request. Available accessories include transparency and print viewers.
MFR., Advertising Displays, Inc.

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Selected the "Best Buy" by a leading independent research organization. Ricohflex owners have long known that theirs is an outstanding camera producing results comparable to those obtainable with the most expensive reflex cameras.

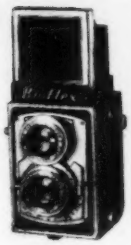
The Ricohflex combines excellent design, quality workmanship and the finest optics with simplicity in operation.

List Price **$50.45** incl. case

- ★ All metal body, leather covered
- ★ Precision matched f:3.5 color corrected coated lenses.
- ★ Single motion opening and closing hood.
- ★ Built in wide field magnifier.
- ★ ASA synchronized shutter. Speeds 1/25, 1/50, 1/100 and B.
- ★ Single lever shutter cock and release.
- ★ Depth of field scale
- ★ 12 exposures in popular 2¼ by 2¼ size.
- ★ Handsome leather eveready case with "snap-off" front.
- ★ Delivered in luxurious wooden box.

Bioflex

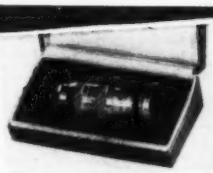
For the utmost in convenient handling and versatility, you will select a Bioflex. Its expensive features permit picture-taking under the most difficult conditions.



List Price **$58.50** incl. case

- ★ Leather covered all metal body.
- ★ Matched, color-corrected f:3.5 coated lenses.
- ★ Body shutter release.
- ★ Self erecting and closing hood.
- ★ Built in magnifier.
- ★ Internal synchronization, ASA terminal
- ★ Shutter speeds from 1/10 to 1/200th second.
- ★ Depth of field scale visible from above.
- ★ Hinged back for easy loading.
- ★ Swivel strap, snap-lock, leather case.
- ★ Packed in beautiful wooden box.

8mm Kinotel Movie Lenses



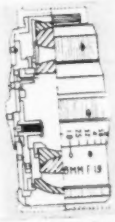
The KINOTEL series of lenses is one of the most amazing lines of movie lenses ever offered. Scientific tests have proven unbelievably fine performance and uniformity. Finest hard coated optics permit you to emphasize the detail in distant subjects with close-up clarity.

1½ inch focal length (3X magnification) available in the following speeds:

f:3.5 fixed focus	$11.95
f:3.5, focusing	$15.95
f:2.9, focusing	$19.95
f:2.0 helical focus, clickstops	$29.95
f:1.5 helical focus, clickstops	$42.50

Kinotar Extreme Wide Angle 6mm f:1.9

$39.95



An extremely fast, extreme wide angle lens at an astonishingly low price. The six element design of the Kinotar assures fine definition at all apertures. Extra features include built in filter holder, clickstops, and protective front and rear caps.

Viewfinders for Leica and Contax

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An image-erecting finder, parallax-correcting, instantaneously giving a clear field of view of lenses with focal lengths from 35mm to 135mm.

Complete with leather case **$35.50**

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Satin chrome finish telescopic finders, parallax-correcting, available in models for use with 75mm, 85mm, 90mm, and 135mm lenses. Every finder comes with fine leather case **$8.95**

WIDEANGLE FINDER — Provides a large, brilliant, parallax-corrected image of the field covered by any 35mm wideangle lens; Complete with leather case **$9.95**

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The finest precision machined extension sets of 5mm, 15mm and 30mm tubes. For Kine Exakta (complete with two adapters) Praktica, Practiflex, Contax-S, Leica, Contax, Exakta B, Primarflex, Master Reflex

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Give your extra lenses the protection they deserve with these handsome German plush-lined, genuine leather cases. Models to fit most 35mm, 50mm, 85mm, 90mm, 105mm and 135mm lenses.

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Japanese Lenses

FOR KINE EXAKTA

135mm f:3.8 **$59.95**

90mm f:4. **$51.95**

Two top quality SUN lenses are available for the Kine Exakta (I, II, V, VX). With a moderate investment in a sharp cutting SUN telephoto you can wisely increase the scope of your Exakta!

FOR LEICA

Our Japanese lenses have proven themselves in actual use as worthy additions to the finest Leica equipment. Precision coupling to the rangefinder, superb color-correction, hard coating, depth of field scale, and excellent resolving power have made these lenses the choice of discriminating yet price-conscious Leica owners.

135mm f:3.8 **$66.95**

90mm f:4. **$59.95**

40mm f:3.5 OLYMPUS WIDEANGLE (for Kine Exacta)

A fast, sharp wideangle lens at an amazingly low price. Complete with deluxe leather case and carrying strap.

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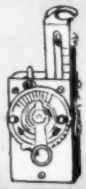

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KOMINE PANHEAD **1.95**

PRAEZISA RANGEFINDER **4.50**

KOPIL SELFTIMER **2.95**

Photographic Importing and Distributing Corporation

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PRINT DRYERS

AREL

Kent Single Dryer. Electrical, a-c or d-c; for semi-matte, matte, and glossy prints; accommodates up to 5x7 prints; takes ferrotype tins; made of polished aluminum drying surface and washable canvas. Price, $8.95.

Kent Double Dryer. Electrical, a-c or d-c; takes up to 5x7 prints, semi-matte, matte, and glossy prints; takes ferrotype tins; dries eight 5x7 prints at one time. Price, $12.95.
DIST., Arel, Inc.

ARKAY

Arkay Model A-24. Electrical; adjustable apron tension mechanism; disconnect switch; chrome surface; variable heat selector; drying area, 19½x24; 110x120 a-c recommended line voltage. Price $48.95.

Arkay Model A-20. Same features as Model A-24 except that drying area is 15¾x21 inches. Price $44.45.

Arkay Flipper F-14. Electrical; takes up to 11x15 prints; 2 drying surfaces; accommodates ferrotype tin; 110 a-c, d-c recommended line voltage; 265 watts; double-sided dryer; unit controlled by fixed heating element electronically measured not to overheat; variable apron tension. Price, $14.25. With 2 built-in chrome ferrotype plates, $19.25.

Arkay Flipper F-17. Electrical; accommodates prints up to 12x17 (2 drying surfaces); takes ferrotype tins; thermostatic control; 110-120 a-c recommended line voltage; 430 watts; heat selector provides complete control over a large range of temperatures. Price, with chrome ferrotype tin built-in, $29.45; without, $21.45.

Arkay E-10. Electrical; takes up to 11x15 prints; optional built-in ferrotype tin; takes ferrotype tins; 110 a-c or d-c recommended line voltage; 205 watts; single-sided dryer; all welded steel construction; balanced heating element. Price, $9.25 including tax; with built-in chrome ferrotype tin, $11.95.
MFR., Arkay Corp.

BURKE & JAMES

Rexo Double Duty Dryer. Electrical; will take 750 2¾x3¼ prints per hour; takes 2 prints up to 18x24 inches; takes 2 ferrotype tins; thermostatic control on a-c models; 115 recommended line voltage; reversible, dries matte or glossy prints. Price, $47.11.
MFR., Burke & James, Inc.

FEDCO

300 Twin Surface. Electrical; takes up to 2 prints 16x20; accommodates ferrotype tin; 110 recommended line voltage; 350 watts; handy knobs to turn dryer; tension device for keeping apron tight. Price, $23.50.

250 Twin Surface. Similar to the above model in features and design; takes 2 prints, 8x10, on each side; size 11½x17½; 110-volt, a-c, d-c; 300 watts. Price, $16.25.

200 Twin Surface. Similar to the above model in features and design; takes 2 prints 11x14; 210 watts. Price, $12.95.

100 Single Surface. Same as above except has only one surface taking up to one 11x14 print; 105 watts. Price, $8.95.

LIGHTNING-LITE

Portrait Print Dryer. Electrical; takes 350 8x10 prints or its equivalent; accommodates prints up to 19x25"; time controlled so that unit will shut off at pre-set drying period; dries face-up with proper curvature; uses blotter - corrugated - cardboard stack method; heat passes through narrow way for rapid drying; all-metal construction. Price, $145 plus tax.
MFR., Lightning-Lite Co.

LOTT

Model F. Electrical; accommodates prints up to 12x17 inches; separate ferrotype tin; accommodates 12x17 ferrotype tins; 110 line voltage recommended; adjustable self-centering canvas apron; 11x16 inches ferrotype plate; includes cellulose squeegee polishing cloth. Price, $9.95.

Lott Roto Dryer-Professional Model. Electrical; takes 40 10x14 prints per hour, or 360 3x5 prints per hour; drum-type rotary dryer; mirror finish stainless steel surface, 23x28 inches; 110-120 recommended line voltage; 300 watts; weighs 24 lbs.; pre-shrunk drying belt. Price, $39.50.

RotoMaster Model. Same as Professional Model except it has all-welded construction; built-in squeegee; adjustable curtain tension; all-metal roller. Weighs 29 lbs. Price, $59.50.

Amateur Model. Same as the Professional model except has a 12x28 inch drying surface. $29.50.
MFR., Lott Mfg. Co.

MIDG-O A

Electrical; takes up to 14x17 prints; accommodates 14x20 ferrotype tins; 115 recommended line voltage; 660 watts; dries up to 625 2½x3½ prints per hour, or 50 8x10 prints per hour; supplied with cardboards and blotters. Price, $88.95, inc. tax.
MFR., Midg-O Co.

GENERAL PHOTO SUPPLY CO.

Photax. Electrical; takes 24 prints from 2x3 to 8x10; accommodates ferrotype tin 8x10; 110 line voltage recommended; 200 watts; double face drying area; apron clips to hold ferrotype tins. Price, $8.95.
DIST., General Photographic Supply Co.

PREMIER

Premier Model 110 SC. Electrical; takes 8 4x5 prints or 2 8x10; accommodates prints up to 11x16 inches; built-in ferrotype tin; 110 recommended line voltage; thermostatic control; special opening levers to release canvas apron. Price, $9.95 plus tax.

Premier Model 110 SP. Similar features as Model 110 SC except has no built-in ferrotype tin; accommodates prints up to 11x16 inches. Price, $7.95 plus tax.

Premier Model 110 TC. Similar to the Model 110 SC except has 2 drying surfaces; takes 16 4x5 prints or 4 8x10; built-in ferrotype tins. Price, $12.95 plus tax.
MFR., Photo Materials Co.

SPIRATONE

Electrical; takes prints up to 11x14; built-in ferrotype tin; 110 recommended line voltage; 100 watts. Price, $5.95.
MFR., Spiratone.

STERLING-HOWARD

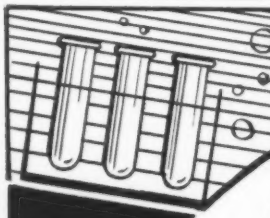
Sterling-Howard Duplex. Electrical; 2 drying surfaces, 12x15 inches; canvas apron with automatic tension locks; rubber feet; 6-foot cord; 225-watt nichrome-wire heating element; for a-c or d-c operation. Price, $10.95.
MFR., Sterling-Howard Corp.

WILLOUGHBY'S

Superb Print Dryer Model 300. Electrical; takes up to 14x17 prints; accommodates 14x20 ferrotype tins; thermostatic control; 110 recommended line voltage; 300 watts; 16½x20½ drying surface; clips hold tins in place; double faced drying surface. Price, $23.50.

Superb Print Dryer Model 200. Electrical; takes up to 11x14 prints; accommodates 10x14 ferrotype tins; thermostatic control; 110 recommended line voltage; 200 watts; 11½x15 inch drying surface; has clips to hold ferrotype tins in place; double-faced drying area; dries eight 5x7 prints at one time. Price, $12.95.

Superb Print Dryer Model 100. Same construction features as the above model; takes one 11x14 print at one time; one drying surface that accommodates a 10x14 ferrotype tin; uses 100 watts on 110 a-c or d-c line voltage. Price, $8.95.
DIST., Willoughby's.



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Save over 75% on film costs. Film in original factory packing of 1-dozen rolls.

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100' D/L Spool	
400' Lab. Pack	$2.49
800' Lab. Pack	8.75
	15.00

NOTE: Processing facilities are available but NOT included with above film.

8MM SUPER-XX 100ASA

Never before available in rolls to fit all Standard Dbl. 8mm R. F. Cameras. 48-Hour Processing Incl.

Price only **$1.75**

3 for $5.00 6 for $9.50

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Brand New! Each has room for 325 35mm slides. Made beautifully of fine wood. Offered at but a fraction of original cost! Stock up now for present and future needs.

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1-Gross Boxes	2 for
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3x4, F2-3	1.69
4x5, F2	2.25

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16MM—100 FT. KODAK FILM —1952 Date

32ASA
Original Kodak Spooling

Never before has this genuine Kodak film been available at so low a price.

100' Roll only **$3.69**

3 for $10.50
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Hugo Meyer Cam-Coupled RANGE FINDER

Simply installed for use on any Press type or foreign type camera with lenses of from 4" to 12" in focal length, sizes from 2¼"x3¼" to 5"x7" incl. Latest model, guaranteed. U. S. Surplus.

Reg. $32.50
New low price **$18.95**

Brand New! All Metal!

11"x14" ENLARGING EASEL

Save almost 50%! Top quality materials with easy sliding ma king arms which permit up to 11"x14" adjustment. Thousands of satisfied users. Fully guaranteed despite our low price.

$10.00 Value, now **$5.95**

(Shpg. Wt. 5 lbs.)

35MM FILM 27½' ROLLS

In Original Factory Pack, Notched and Numbered for 36 Exposures

You get full color sensitivity with this Fine Grain Panchromatic 50W film. A fortunate purchase from U. S. Surplus permits us to offer this great value at our low, low price!

3 Cans (540 exposures) **$1.25**

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35MM ANSCOLOR

Fully Guaranteed—Factory Fresh Stock—Daylight or Tungsten

Make beautiful color transparencies with your 35mm camera. Safety stock in reloaded cartridges for 20 exposures.

5 for $5.95

36-Exposure Cartridges each, $1.95 **$1.25 ea.**
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COLOR FILM IN BULK ROLLS
Tungsten Only

27½' makes 9-20's or 5-36's **$8.95**
100' makes 30-20's or 18-36's **$24.50**

8MM & 16MM COLOR FILM

Daylight or Tungsten
Factory Fresh!

Money-Saving Special! Fully Guaranteed

8mm x 25'	$2.75
16mm x 100'	7.50

Includes Processing

Save Money— Load Your Own

16MM Magazines

Standard empty 16mm Magazines, in perfect condition. Complete with instructions.

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16MM BULK FILM for MAG. LOADING

Super X Reversal or Infra-Red Negative, supplied on 50' Core.

Only **59¢ ea.**

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FOR H-8 BOLEX OWNERS!

We offer you 100' rolls of FRESH 8mm Film, reversal, 50ASA, on spools to fit your camera. Fine Grain Panchromatic, full guaranteed. 48-Hour processing included.

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Mfrs. Seconds

5x7 S/W SM #1-2, 100's	$1.69
5x7 D/W SM #1-2-3, 500's	7.95
6½x8½ D/W SM #1, 500's	5.95

8x10—SINGLE WEIGHT

Glossy #0-1-4, 100's	3.95
Glossy #1-3-4, 500's	17.50
Semi-Matte #3-4, 100's	3.95
Semi-Matte #1-2-3-4, 500's	17.50
11x14 S/W Gl., #1-2-3-4, 250's	11.50
16x20 D/W Gl., #4, 50's	8.95

8x10—DOUBLE WEIGHT

Glossy #1-2-3, 100's	4.95
Semi-Matte #1, 100's	4.95
Semi-Matte #1-4, 144's	5.95
Semi-Matte #1-3-4, 500's	19.50
11x14 D/W SM #3-4, 250's	18.50
POSTCARDS D/W SM, #1, 2500's	21.50

ENLARGING PAPER in Rolls

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Kodak Bromide, S/W glossy, Plasticized back for rapid processing.

7" x 125'—#1-2	ea.	$1.89
3 Rolls		5.50
20 rolls, 1 contrast		35.00
(Shpg. Wgt. 5 lbs. ea.)		
3¼"x200'—#2-3	ea.	1.65
2 Rolls same contrast		2.95
Special 8-Roll Ass't. 4 each of #2-3		13.95
(Shpg. Wgt. 3 lbs. ea.)		

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Movies at a cost of but pennies per scene!

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16mm x 100'—50W	$3.00	$17.95
8mm x 25'—50W	1.25	7.45
16mm 50' MAG-50W	2.75	16.45
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Sylvania	
Press #25s (120)	$11.70
#0 (140)	15.75
Press #40 (120)	13.50
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General Electric	
#SM (120)	12.60
#5 (120)	11.70
#6 (120)	13.50
#11 (120)	13.50

2¼" x 3¼" CUT FILM

Fresh stock, full guaranteed Panchromatic Cut Film, 50 Weston. 24 sheets to package.

3 Pkgs. **$2.49**

6 for $4.50
12 for $8.50

2¼" x 3¼" FILM PACK

Save almost 50% on this FRESH DATED, guaranteed Fine Grain Ortho Film. Speed 40W Daylight. Perfect for every use. We can't list the name of the nationally known maker. Specially Priced!

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IN CARTRIDGES. Super-XX or Panatomic-X, factory spooled for Army P-X's. In original foil wrappers.
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Gevaert MICROGRAIN, fine grain, 25ASA, or PANCHROMOSA, high speed, 50ASA. Original factory sealed boxes. 10 for $2.50

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NEGATIVE FILE (Holds 72 negatives) with Every $1.00 Purchase!

2¼"x3¼" PRESS CAMERA

All-metal construction, accommodates lenses from 4" to 4½". Features include a non-slip focusing knob and Hooded Ground Glass. A $5.00 VALUE!

Special Price Without Lens **$16.95**

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New Dbl. Cut Film Holders	3 for $10.75
2¼"x3¼" Film Pack Adapter	
120 Roll Film Adapter	4.95
Optical View Finder (installed)	15.50
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BACO PLASTIC DEVELOPING TANK

Sheet film, filmpacks; 4x5 inches; plastics construction; light-proof cover; rounded corner; takes 18 Baco hangers; 12 Kodak 4A hangers. Price, $7.68, including tax.

BACO STAINLESS STEEL DEVELOPING TANK

Similar in features and characteristics as the plastic model, except is made of stainless steel and available in 4x5 and 5x7 inch models. Price, $9.65, including tax.
MFR., Baco Accessories Co.

CARR SEAMLESS DEVELOPING TANK

Sheet film, filmpacks, plates; 2¼x3¼ to 11x14; darkroom or daylight; takes 6 to 20 hangers; liquid capacity 1 qt. to 50 gal.; takes all roll sizes; stainless steel seamless weld construction. Prices on request. Available accessories include top and floating lids, vane agitators.
MFR., Carr Corporation.

CINE REEL HOME PROCESSOR

For 16 or dbl. 8 mm film; up to 100 feet; liquid capacity 1 gal.; Allegheny metal construction; has take-up bar to counteract film stretch; includes reel, tray, and drying rack. Price, $19.95.
DIST., Superior Bulk Film Co.

DEEPSTER

Roll film; full length deep tanks; 35 mm to No. 120; liquid capacity 1 gal.; no reel; plastic construction; film is held by clips in vertical position; sets of two tanks, one for developer, and other for fixing bath. Price, for both tanks, wall brackets, light-tight caps, and film clips, $6.95, tax included. Available accessories include 36 exp. 35-mm holder. Special model available for larger roll films.
MFR., Glen Camera Products.

EBE DAYLIGHT ROLL FILM TANK

Roll film; 8 mm to No. 122; up to 25 feet; liquid capacity 2 qts.; stainless steel construction; bakelite reel and geared spools; film wound from one spool to other by external crank handle; film loading device; spring clutch to prevent film tearing. Price, $19.75.
MFR., Ebe Mfg. Co.

ELKAY ADJUSTABLE ROLL FILM TANK

Rollfilm, 35 mm to No. 616; adjustable; daylight type; bakelite construction; thermometer well; wet or dry loading; liquid capacity 16 to 26 oz. Price, $3.95.

ELKAY ADJUSTABLE ROTO CUT FILM TANK

Sheet film and filmpack up to 3½ inches; adjustable; bakelite construction; thermometer well; adjustable reel; capacity 12 sheets. Price, $5.25.

ELKAY ADJUSTABLE 4x5 CUT-FILM-PACK TANK

Sheet film and filmpacks up to and including 4x5; adjustable; hard rubber construction; funnel-type cover; removable bakelite rack; capacity of 12 sheets. Price, $9.95.

ELKAY HARD RUBBER TANK

3 sizes, 4x5, 5x7, and 8x10; takes sheet film or filmpacks; open type; fitted rubber dust cover; acid and alkali proof.

4x5 holds 2 hangers; liquid capacity 2 qts. Price, $4.50.

5x7 holds 15 5x7 hangers, 20 4x5 hangers; capacity 4 qts. Price, $5.95.

8x10 holds 20 8x10 hangers, 30 5x7 hangers; liquid capacity 3½ gals. Price, $9.50.

ELKAY NO. 111 HARD RUBBER TANK

Takes 5x7 sheet film, filmpack or plates; liquid capacity 1 gal.; vulcanized hard rubber construction; light proof mushroom cover. Price, $8.25.
MFR., Elkay Photo Products Co.

ENVOY BAND TANK

Four sizes, 2¼x3¼ to 9x12 cm; sheet film, filmpacks, and plates; darkroom type; capacity, 4 sheets; liquid capacity 5 oz.; bakelite construction; stainless steel reel. Price, $7.
Rollfilm tank for 35-mm or 120—620; darkroom type; capacity 1 roll; liquid capacity 4 oz.; bakelite construction; spigot in base; cellulose apron. Price, $5.
DIST., Delta Foreign Sales Corp.

FEDCO ADJUSTABLE

Takes film sizes from 35 mm to No. 116; daylight; adjustable; bakelite construction. Price, $3.25.

FEDCO SHEET FILM

Sheet film; 2¼x2¼ to 2¼x3½ inches; adjustable; capacity of 12 sheet films; bakelite construction; reel fits most roll film tanks. Price, $3.60.

FEDCO ADJUSTABLE SHEET FILM

Sheet film, filmpacks; from 2¼x2¼ to 4x5 inches; adjustable; daylight; capacity of 12 sheets; bakelite construction; loading device. Price, $7.65.
MFR., Fedco Products.

FISHER

Sheet films in sizes up to and including 11x14, in various capacities. Also full processing units including insert tanks in master water jacket for rollfilm, X-ray film, and sheet film from 4x5 to 8x10. Prices on request.
MFR., Oscar Fisher Co., Inc.

FR ADJUSTABLE CUT-FILM-PACK TANK

Sheet film and filmpacks, 4½x6 cm to 4x5 inches; capacity for 12 films; adjustable; daylight; plastic construction; liquid capacity 52 oz. Price, $9.00, including tax.

FR SPECIAL MODEL 2

Takes rolls from 35 mm to No. 116; adjustable; daylight; liquid capacity 16 oz.; plastic construction; built-in thermometer well; locking cover. Price, $3.40, including tax. Double flange for multiple film development available as an accessory.
MFR., The FR Corp.

KINOPLEX

35-mm rolls; darkroom loading; daylight developing; takes up to 36-exp. rolls; liquid capacity 11 oz., not adjustable; all bakelite construction; agitation by horizontal and vertical movement. Price, $3.15.
DIST., Mimosa-American Corp.

KODACRAFT ROLL FILM TANK

Takes rolls from 127 to 616-116; daylight type; plastic construction; loading by acetate aprons supplied for film sizes. Price, $2.95 including tax.

KODAK DAY-LOAD TANK

For 35 mm developing; exposed film transferred to reel in daylight; stainless steel and plastic construction; internal cut-off knife; magazine chamber and top form unit. Price, $9.85.

KODAK HARD RUBBER TANK

Sheet film or plates 4x5 inches; open type; up to 6 films in hangers; liquid capacity ½ gal.; floating lid. Price, $2.65. Available in 5x7 inch size, $3.45; 8x10 size, $10.
MFR., Eastman Kodak Co.

LEITZ CORREX

35 mm; takes 6 feet of film; liquid capacity 17 oz., bakelite construction; bakelite reel; accommodates two films back-to-back; available accessories include agitators. Price, $9.
MFR., E. Leitz, Inc.

LOADOMAT 20

Takes rolls No. 120 and No. 620; daylight type; liquid capacity 12 oz.; stainless steel and bakelite construction; automatic loading; hands never touch film; recommended for color work. Price, $10.95.
MFR., Prime Photo Products, Inc.

MICRO RECORD D10 DEVELOPING TANK

8-mm to 35-mm roll film; daylight type; takes up to 200 ft.; liquid capacity up to 2 qts.; plastic construction; motor driven; automatic; portable, accessories include reels, rubber hose, transparent tank. Price, $129.

MICRO RECORD D20 DEVELOPING TANK

35-mm and 70-mm roll film; daylight type; takes up to 100 ft.; liquid capacity up to 3 qts.; plastic construction; motor driven; automatic; portable; accessories include reels, rubber hose, transparent tank. Price, $237.
MFR., Micro Record Corp.

MINOX

Takes Minox 9.5-mm film; daylight type; plastic construction; liquid capacity 1 oz. Price, $8.85, plus tax. Agitator-thermometer, $.60.
DIST., Minox, Inc.

MORSE 5x7

Takes sheet film sizes from 3¼x4¼ to 5x7 inches; capacity of 6 films; liquid capacity ½ gal.; darkroom type; hard rubber construction. Price, $3, plus tax.

Model available with same characteristics except has capacity for 16 films; liquid capacity 2 gals. Price, $6.36, plus tax.

MORSE G-3 DEVELOPER

Takes rolls from 16 to 35 mm; capacity 100 feet; adjustable; daylight type; liquid capacity 3 pts.; bakelite construction; stainless steel reels; for either negative or reversal processing; automatic agitation; for black-and-white, or color. Price, $22.50, plus tax.

MORSE M-70 COLOR FILM PROCESSING OUTFIT

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 6 films; darkroom type; liquid capacity ½ gal.; stainless steel water jackets with splash guards; thermometer well; 3 sizes for accommodating from three to eight hard rubber tanks with floating covers; water circulation; portable. Prices range from $52.50 to $110, plus tax.

MORSE 507 DAYLIGHT DEVELOPING OUTFIT

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 16 films; daylight type; stainless steel and hard rubber construction; includes light-tight film holder and lid; 3 solution tanks; 2 floating covers; no handling of film loading until drying. Price, $42.50. plus tax.

MORSE M-10 AUTOMATIC

Takes rolls from 35 mm to 9½ inch size widths; adjustable; capacity from 5 to 200 feet; darkroom type; stainless steel construction; motor-driven; automatic reversing. Price, $175 plus tax.
MFR., The Morse Instrument Co.

NIKOR

Stainless steel tank for roll film; daylight type; not adjustable; with reel and loader.

No. 1 for size No. 127 (1⅝x1⅝ to 1⅝x2½); 16 oz. maximum capacity; $7.62.

No. 2 for size No. 120 (1⅝x2¼ to 2¼x3¼); 16 oz. maximum capacity; $7.62.

No. 4 for size No. 116 (2x2½ to 2½x4½); 16 oz. maximum capacity; $7.62.

No. 5 for size No. 122 (3¼x4¼ to 3¼x5½); 20 oz. maximum capacity; $10.41.

No. 6 for size No. 118; 20 oz. capacity; $10.41.

No. 33 for two 35 mm rolls; 16 oz. maximum capacity; $10.70.

No. 35 for one 35 mm roll; 8 oz. maximum capacity; $6.67.

Multiple tank; daylight type; takes 2 reels No. 120 or 4 35-mm reels; 30 oz. capacity. Price, $7.12; all roll film reels, $3.84.

Extra tall cans; with plain cover and lifting rod, without reels.

12½ inch to take 8 35-mm or 4 No. 120 reels; capacity approx. ½ gal., $10.28.

17 inch to take 11 35-mm or 6 No. 120 reels; capacity approx. ¾ gal., $12.09.

22 inch to take 14 35-mm or 8 No. 120 reels; capacity approx. 1 gal., $13.40.

Miniature cut film tank; stainless steel; daylight type; takes 12 sheets, cut film only, sizes 2¼x3¼, 2½x3½, 6x9-cm and 6½x9-cm without adjustment. Price, with rack and loaders, $7.87; rack and loaders with converting ring for use in any Nikor roll film tank (except No. 35), $3.30.

NIKOR ADJUSTABLE FILMPACK AND SHEET FILM TANK

Stainless steel daylight developing tank with capacity of 12 films in sizes from 2¼x3¼ to 4x5 inches; liquid capacity 36 oz.; adjustable film cage. Price, $15.55.
DIST., Burleigh Brooks Co.

PHOTAX

Rollfilm, 35-mm to No. 116; adjustable; daylight type; bakelite construction; bakelite reel; positive locking film spiral on reel; liquid capacity 16 oz. Price, $4.95, inc. tax.

PHOTAX FILM DEVELOPING TROUGH

For rollfilm, 35-mm to No. 116; adjustable; open type; plastic construction; hard rubber loader; capacity of 1 roll; liquid capacity 8 oz. Price, $1.49, inc. tax.
DIST., General Photographic Supply Co.

PRICE MONOTANK 45

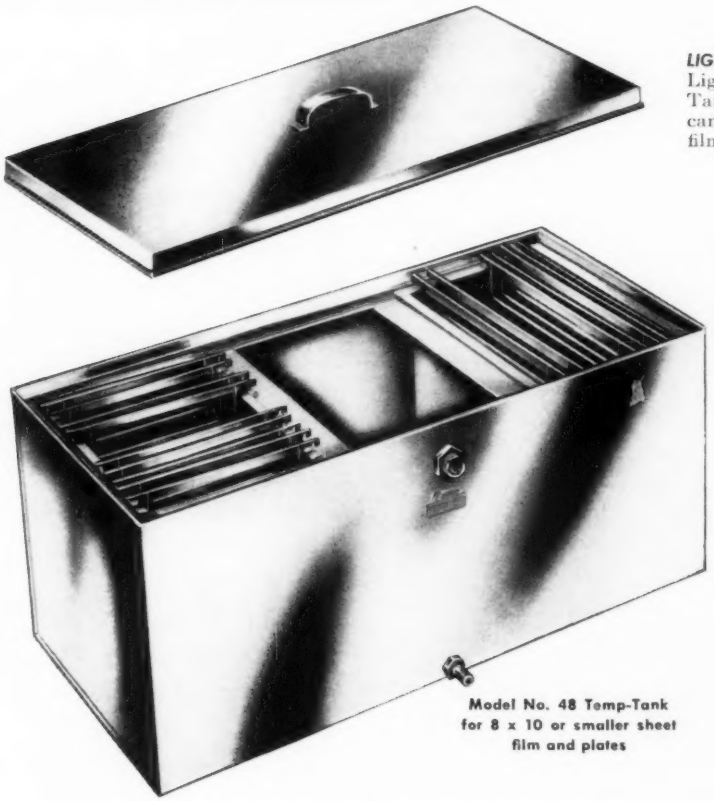
Sheet film, filmpacks, or plates, up to 4x5 inches; daylight type; up to 12 films; liquid capacity 2 qts.; plastics construction; can process various sizes of film at one time. Price, $5.95, including tax.
MFR., Price Industries Corp.

REELRITE DEVELOPING TANK

35-mm to No. 116 rolls; daylight type; liquid capacity 26 oz.; plastic construction; bakelite reel; adjustable; available accessories include

CALUMET TEMP-TANKS...

make Light Work of your Dark Room Developing!



Model No. 48 Temp-Tank for 8 x 10 or smaller sheet film and plates

LIGHT OR DARK . . . this special Calumet Light Cover fits over the entire Temp-Tank with such light-proof snugness you can use light in your darkroom while films are in the tank.

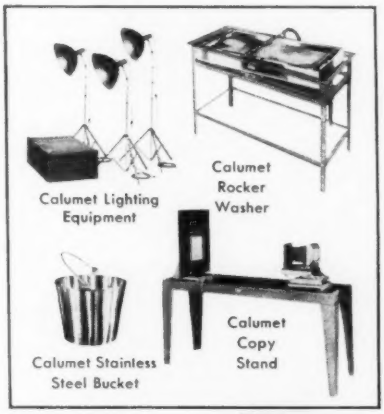
CALUMET TEMP-TANKS

- Stainless steel water jacket and insert tanks provide three compartments.
- Develops, rinses, fixes, washes sheet film in one unit.
- Available in four sizes for a minimum amount of solution to develop sheet film 2¼ x 3¼ to 8 x 10.
- For use by professional, press and amateur photographers.

It's stainless steel . . . it's fabricated by experts . . . and, mister, what a unit for ease, speed and economy of use. No pouring in and out of chemicals. You just load the film in hangers and start. Always ready for instant operation, and two to three times faster than any other system of developing.

Floating lids prevent oxidation of solution while stored in the tank. Equipped with intake and overflow fittings for water circulation and accurate temperature controls.

And, like all Calumet stainless steel equipment, Temp-Tanks are fabricated with the expert "know-how" that means lifetime service with minimum maintenance. There's nothing else quite like it.



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MFR., Testrite Instrument Co., Inc.

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Roll film sizes No. 120, No. 620; daylight type; not adjustable; liquid capacity 18 oz.; Allegheny metal construction; bakelite reel; good agitation. Price on request.
DIST., Mimosa-American Corp.

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Takes rolls from 35 mm to No. 616; adjustable; daylight type; liquid capacity 1 qt.; bakelite construction; locking top. Price, $2.19.
DIST., Sears, Roebuck and Co.

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YANKEE UTILITY TANK

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MFR., Windman Brothers.

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Model S. Glass beaded; tripod type; square size screens adjustable to oblong shape; equipped with square-tubed tripod. Sizes from 30x40 to 52x70 inches; priced from $19.95 up. Seven different sizes available.

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Model D. Glass beaded; hanging type; includes case; hanger brackets; 10 models; sizes from 30x40 to 84x84 inches; square and rectangle; priced from $11.50 up.

Model E. Glass beaded; table (easel) model; furnished with wire easel and rubber tip; 4 sizes, from 13x18 to 30x40 inches; priced from $1.95 up.

MFR., Aurora Industries, Inc.

BAUSCH & LOMB

Models 41-31-26 and **41-31-28.** White opaque; hanging type; made of heavy cloth; spring rollers; two sizes, 6x6 feet, $15; 8½x8½ feet, $28.

Models 41-31-36 and **41-31-38.** Aluminum coated; hanging; heavy material with metallic surface; mounted on spring rollers; two sizes; 6x6 feet, $20; 8½x8½ feet, $28.

MFR., Bausch & Lomb Optical Co.

CRYSTAL BRITE

Table Model. Beaded surface; matte-white; standard type table model; 5 sizes available: 18x24 to 30x30 inches; prices from $2.95 to $6.

Wall Model. Glass beaded; spring roller; 30x40 to 37x50; prices from $8.95 to $13.50.

Model 1000. Glass-beaded; standard folding tripod type; spring rollers in metal case; 3 sizes; 30x40 inches, $10.95; 40x40 inches, $14.50; 37x50 inches, $17.50.

Model 1300. Glass-beaded; portable metal box type; dustproof; spring roller; combination tripod and table-type model; size, 30x40 inches; price, $12.95.

DIST., American Camera & Photo Supply Co.

CURIO PHOTO

Opacoflex. Translucent surface; hanging type; for toy projectors, 8 and 16-mm projectors; three sizes; 18x25, $1.50; 25x37, $2.50; 38x38 inches, $3.50. Cases available for $.50.

MFR., Curio Photo.

DA-LITE

Model B. Crystal-beaded or matte-white; hanging type; spring-roller; all-metal case protects screen when not in use; has brackets for wall or ceiling; sizes from 30x40 to 72x96 inches; priced from $12 to $68.25; square sizes from 40x40 to 84x84 inches; priced from $13.50 to $60.50.

Model C. Crystal-beaded or matte-white; built in wall and ceiling hangers; spring-roller and all-metal case; sizes from 6x8 feet to 12x12 feet; priced from $94.50 to $192.50. Floor stands available from $50.50 to $54.

Electrol. Crystal-beaded or matte-white; hanging screen; electrically operated; limit switch for automatic operation; sizes from 6x8 feet to 20x20 feet; priced from $275 to $520.

Versatol. Crystal-beaded; tripod type; spring-roller; square tube; automatic height adjustment; sizes from 30x40 to 70x70 inches; priced from $18.40 to $46.20.

DeLuxe Challenger. Crystal-beaded or matte-white; tripod-type; automatic, positive locking tripod adjustment; gable-roof legs; sizes, 30x40 to 70x70 inches; priced from $22.55 to $54; cases, $5.75 to $7.70.

Picture King. Beaded; mildew and fire resistant; all-aluminum tripod; secure locking device; leveler for correct positioning; gravity-opening legs; sizes, 37x50 to 72x96 inches; priced from $43.45 to $104.50; cases, $7.70 to $13.75.

Da-Lite Jr. Crystal-beaded; table or hanging-type model; screen surface held taut between 2 all-steel tubes by spring wire support; suction cup foot; sizes, 18x24 to 30x40 inches; priced from $3.50 to $7.

Comet. Crystal beaded; tripod model; preset picture size; adjusts from square to rectangular format; 4 sizes from 30x40 to 50x50. Prices, from $13.75 to $21.50.

Hilo. Crystal beaded; tripod model; adjusts to 3 heights in square and rectangular formats; low position 11 inches from floor; case and fabric removable from tripod for wall or ceiling hanging; 3 sizes from 50x50 to 70x70. Prices, from $35.25 to $54.

Model M, Photo Background. Two surfaces, reversible; matte white on one side, gray on the other; low position about 13 inches from floor; 2 sizes, 60x72 and 70x96. Prices, $52.25 and $66.

MFR., Da-Lite Screen Co., Inc.

KLEARCITE

Klearcite. Translucent; table type; mounted in frames with feet; rear projection allows pictures to be shown in daylight. Prices and sizes on request.

MFR., Klearcite Screen Co.

PETRICK

Pet Economy. Glass-beaded; tripod model; handle for carrying; automatic spring lock on extension rod. Screen sizes 30x40, 40x40, 37x50 inches; priced at $12.95, $14.95, and $16.95; cases available as accessories.

Pet Wall Model. Glass-beaded; hanging type; spring roller; steel case; 3 sizes, 30x40, 40x40, 37x50 inches; priced at $9, $10, and $14.50; cases available as accessories.

Pet Table Model. Glass-beaded; table model; 2 sizes, 30x40 and 40x40 inches; priced at $12.50 and $15; cases available at $9 and $15.95.

MFR., Petrick Bros., Inc.

RADIANT

Automatic. Glass beaded; fine grain, brilliant Hy-Flect fabric; electrically operated with reversible a-c motor; aluminum screen roller; can be suspended from ceiling or mounted on walls. 15 sizes from 6x8 to 15x20 feet; prices on request.

Model DLS Screenmaster. Portable tripod; glass-beaded or matte-white, flame-proof, mildew proof, washable Vyna-Flect screen fabric; adjustable screen height and size; snap-out leg opening; screen leveler; 8 sizes from 30x40 to 70x70 inches; priced from $24.95 to $54.95; cases from $5.95 to $8.50.

ST Stereomaster. Three-dimension tripod screen; polarizing silver fabric; same operating features as Screenmaster; two sizes, 40x40 and 50x50. Prices, $28.95 and $37.95.

Super De Luxe. Vyna-Flect, washable; tripod type; metal tripod with swingout metal case having round end cap, enclosing slat collars; 3 sizes, from 63x34 to 84x84 inches; priced from $89.75 to $102.75.

KC De Luxe Champion. Glass-beaded Hy-Flect fabric; square tubed tripod; fully adjustable; no-tear roller pocket; 8 sizes, 30x40 to 70x70 inches; priced from $19.95 to $49.95; cases, $5.25 to $7.50.

QB Bantam. Glass-beaded Hy-Flect fabric; full height and screen size adjustability; light weight; 4 sizes, 30x40 to 50x50 inches; priced from $13.75 to $21.50.

EC Wall and Ceiling. Vyna-Flect, washable, mildew-proof, flame-proof fabric; aluminum screen case; reversible brackets; spring roller; 8 sizes from 6x8 feet to 12x12 feet; priced from $93.50 to $185; tripod stand, $69.50.

W Wall Hanging Screen. Glass-beaded; fine-grain, brilliant, Hy-Flect fabric; metal case; spring roller; 11 sizes, 30x40 to 72x96 inches; priced from $11.95 to $67.50.

L Easel Type. Fine grain, beaded fabric; hanging-type; slat tips and black border; 3 sizes, 18x24, 22x30, and 30x40 inches; priced at $3.50, $4.50 and $7.50.

XL Picturemaster. Washable, beaded, mildew-proof Vyna-Flect; aluminum tripod; large audience tripod; screen leveler; three sizes, 63x84 to 72x96. Prices, from $89.75 to $102.75.

MFR., Radiant Mfg. Corp.

SPIRATONE

Tripod Model. Pyroxylin beaded fabric; roll-up metal cannister; 5 sizes available; 30x30 to 50x50; prices, $5.84 to $14.94.

MFR., Spiratone.

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Front Projection. Reflective type; white matte; silver finish for Polaroid and stereo projection; available in any size for frames or in 30x30 or 40x40 inches roller cases. Prices on request.

MFR., Roy C. Stewart & Sons

S.V.E.

Glowhite. Matte-white, beaded, or silver; lightweight; adjustable in height; three sizes; 40x40 inches, $20; 50x50 inches, $27.50; 60x60 inches, $38.50.

MFR., Society for Visual Education, Inc.

TRANSMIRRA

Depth-Vue. Silvered, beaded, or flat white; box model; seven sizes, from 30x40 to 70x70 inches; priced from $35 to $95.

MFR., Transmirra Products Corp.

TOWER

Tower DeLuxe. Glass-beaded; tripod model; steel extension rod; adjustable steel tripod with rubber feet; metal handle; rust resistant; automatic clutch for raising and lowering; attached metal carrying case; 4 sizes, 30x40, 37x50, 50x50, 52x70 inches; priced at $16.50, $22.50, $24.75 and $35.50.

Tower Economy. Glass-beaded; tripod model; all-steel stand; 2 sizes, 30x40 and 40x40 inches; priced at $10.50 and $11.95.

Tower 8500. Glass-beaded; hanging or table model; metal base for table use; durable; rust-proof; spring roller; light-weight portable; size, 22x30 inches. Price, $3.98.

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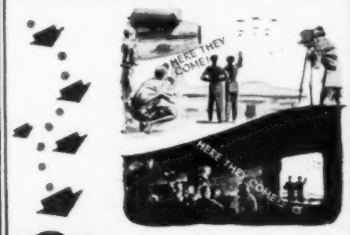

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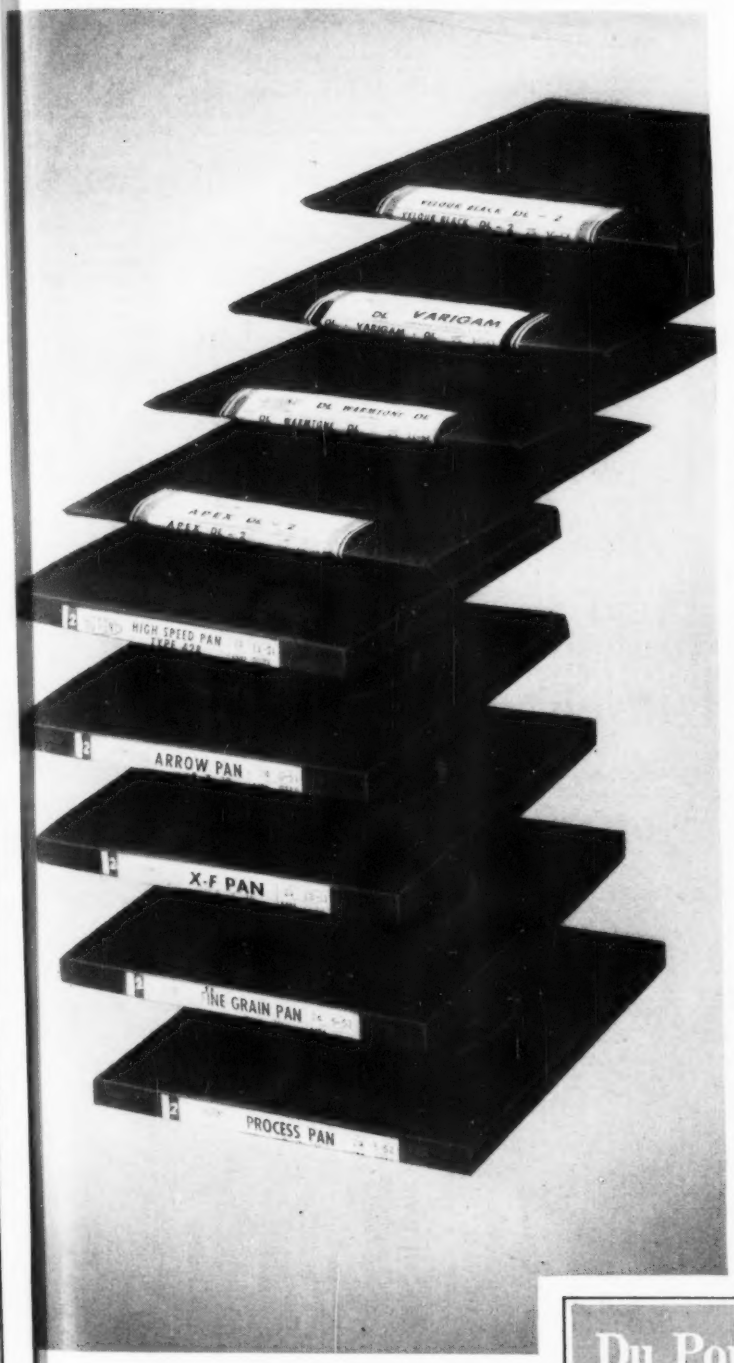
PAPER	TYPE	USE	SPEED	SIZES	CON-TRASTS	SUR-FACES	COLORS	REMARKS
ANSCO								
CONVIRA	Chloride	Contact	Normal	*†	6	2	1	S&DW. Glossy, velvet; cold black tones.
CYKON	Chloride	Contact	Normal	*	3	2	1	S&DW. For portraits; commercial warm tone prints; suitable for gold tone.
CYKORA	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For portraits and commercial illustration.
PROOF	P.O.P.	Contact	.....	*	1	1	1	SW. For proofs. Print by daylight or arc.
SPEEDEX	Chloride	.....	Rapid	*†	5	1	1	SW. Glossy, for optical printers; blue-black tones.
BROVIRA	Bromide	Enlarg.	Fast	*†	4	3	1	S&DW. For pictorial, reproduction; good latitude, rich black tones.
PROJECTION PROOF	Chl-Br.	Enlarg.	Fast	*†	1	5	1	SW. D.O.P.; rough surface minimizes retouching.
INDIATONE	Chl-Br.	Enlarg.	Normal	*†	1	4	1	DW. Portrait, warm toned, good for sepia, gold tone.
SCONA REFLEX	Reflex	Copy	.....	*†	2	1	1	SW. For reflex copies; can use in subdued light.
DASSONVILLE								
CHARCOAL EMBER	Chl-Br.	Enlarg.	Slow	*†	1	8	2	SW. Warm tones; pictorial, portrait, etc.
CHARCOAL BLACK	Bromide	Enlarg.	Fast	*†	4	8	2	SW. Cold tones; same as above.
DEVOLITE								
DEVOLITE	Chloride	Contact	Slow	*†	3	1	1	SW. Darkroom not necessary; cold tones; glossy.
DEVODARK	Chloride	Contact	Normal	*†	6	2	1	S&DW. Warm tone.
DU PONT								
"APEX"	Chloride	Contact	Normal	*†	6	9	2	S&DW. Wide latitude in exposure and development; gives full scale value of negative.
"VELOUR BLACK"	Chl-Br.	Enlarg.	Normal	*†	4	17	2	S&DW. For portrait, pictorial, commercial; full scale; surfaces for every type of work.
WARMTONE TYPE 9034	Chl-Br.	Enlarg.	Normal	*	1	5	2	DW. Warm brown tone; rich scale of gradation.
"VARIGAM"	Chl-Br.	Enlarg.	Normal	*†	Variable	9	1	S&DW. With filters, gives any degree of contrast from extremely soft to very hard.
"IVORA"	Chl-Br.	Enlarg.	Normal	*	1	1	1	On white film base; for miniatures and coloring.
"ADLUX"	Chl-Br.	Enlarg.	Normal	*	1	1	1	Film; coated both sides; for rear illumination, etc.
CANVAS	Chl-Br.	Enlarg.	Normal	*†	1	.....	1	Fine texture fabric with Velour Black coating; has same quality as paper; takes oil colors.
BLACK & WHITE PROOF	Chl-Br.	Enlarg.	Normal	*†	2	1	1	SW only. For proof printing, murals, etc.
EASTMAN								
AD-TYPE A	Chloride	Contact	Normal	*†	6	1	1	SW. Full scale; cold tones; folds without cracking.
ARISTO	Chloride	Contact	Normal	*†	3	3	2	DW. Full scale; for commercial, illustrative and portrait work.
ATHENA	Chloride	Contact	Normal	*†	3	3	1	DW. For portraits; warming brilliance and fine gradation.
AZO	Chloride	Contact	Normal	*†	6	4	1	S&DW. For amateur, portrait, and commercial work.
ILLUSTRATOR'S AZO	Chloride	Contact	Normal	*†	5	4	1	S&DW. Full scale, chiefly for illustrative work.
RESISTO	Chloride	Contact	Normal	*†	4	1	1	SW. Water-resistant base for rapid processing.
VELITE	Chloride	Contact	Slow	*	1	1	1	SW. Can be handled in normal room light; 3 sizes.
VELOX	Chloride	Contact	Normal	*†	6	1	1	SW. Amateur and photofinishing; blue-black tones.
STUDIO PROOF	P.O.P.	Contact	Slow	*	1	2	1	SW. For proofs. Print by daylight or arc.
ILLUSTRATOR'S SPECIAL	Chl-Br.	Enlarg.	Normal	*†	1	2	1	S&DW. Pure white stock; full scale, rich tones.
KODABROMIDE	Chl-Br.	Enlarg.	Fast	*†	5	7	2	S&DW. Rich black tones; full-scale emulsion; for commercial, pictorial, news work.
MEDALIST	Chl-Br.	Enlarg.	Fast	*†	3	3	2	S&DW. Rich black tones; all-purpose enlarging paper for commercial, pictorial and illustrative photography.
MURAL	Chl-Br.	Enlarg.	Fast	*†	3	1	1	Med. W. Tweed surface; especially designed for production of photographic murals.
EKTALURE	Chl-Br.	Enlarg.	Fast	*†	1	1	1	DW. Fast; warm tones; portrait paper with surface designed for hand-coloring with oils.
OPAL	Chl-Br.	Enlarg.	Normal	*†	1	13	2	DW. For portraits, exhibition prints; warm tones, full scale; wide variety of surfaces.
PLATINO	Chl-Br.	Enlarg.	Fast	*†	3	3	2	S&DW. For higher speed printing; full scale.
PORTRAIT PROOF	Chl-Br.	Enlarg.	Fast	*†	1	1	1	SW. Rough, D.O.P. for proofs, murals, etc.
RESISTO RAPID	Chl-Br.	Enlarg.	Fast	*†	4	1	1	SW. Water resistant base for rapid processing.
ROYAL BROMIDE	Bromide	Enlarg.	Very Fast	*†	4	1	1	S&DW. Extreme speed for portrait, pictorial work.
VELOX RAPID	Chloride	Enlarg.	Slow	*†	5	1	1	SW. For optical printers; full scale, rich tones.
UNICONTRAST V.R.	Chloride	Enlarg.	Slow	†	1	1	1	SW. Same as above; longer scale.
CARBRO PAPER	Chl-Br.	Enlarg.	Fast	*†	1	1	1	SW. Special paper for making carbro prints.
SUPER SPEED DIR. POS.	Bromide	Camera	Fast	*†	1	1	1	SW. Reversal. Positives by exposure in camera.
TRANSLITE	Chl-Br.	Enlarg.	Fast	*	1	1	1	Supplied as film and paper; coated both sides; for rear illumination, enlarged negatives, etc.
GEVAERT								
NOVAGAS	Chloride	Contact	Normal	*†	.5	1	1	S&DW. Wide latitude in printing. Glossy surface.
ARTEX	Chl-Br.	Enlarg.	Normal	*†	3	.5	1	DW. Warm tones for portrait work. Rough surface.
LARJEX	Chloride	Con-Enl.	Fast	*†	.5	1	1	SW. For oversize prints, optical printers; glossy.
P.O.P. PROOF	P.O.P.	Contact	Normal	*	1	1	1	SW. For proofs. Print by daylight or arc; glossy.
GEVALUXE VELOURS	Bromide	Enlarg.	Normal	*	1	1	1	DW. For portrait, pictorial; warm tones; velour surface.
NOVABROM	Bromide	Enlarg.	Fast	*†	5	3	1	S&DW. In 50-inch rolls for photo murals.
MULTI-CONTRAST	Chloride	Enlarg.	Fast	*†	1	1	1	SW. Designed for use with strip printers and optical printers.
PROJECTION PROOF	Chl-Br.	Con-Enl.	Normal	*†	1	1	1	SW. Cold tones; portraits & commercial work.
ARTONA	Chloride	Contact	Slow	*	1	1	1	DW. Warm tones; for portraits.
TONEX	Chl-Br.	Con-Enl.	Slow	*	2	3	1	DW. Warm tones; for portraits; designed for toning work.
NOVAREX	Chloride	Contact	Slow	*	1	3	1	DW. Warm tones; for portraits and greeting cards.
GEVAERT DIAVERSAL (Dist., Revere Camera Co.)	Reversal-transfer	Con-Enl.	Fast	*	1	1	1	For making direct positive prints by chemical reversal of emulsion; recommended for making prints from positive color transparencies.
GRANT								
DIREX	Direct Pos.	Camera	Fast	*†	1	1	1	For making direct positive prints by chemical reversal of emulsion. Used in the camera.
HALOID								
HALO	Chloride	Contact	Normal	*†	4	1	1	S&DW. Glossy; cold tones, full scale of gradation.
INDUSTRO	Chloride	Contact	Normal	*†	4	3	1	S&DW. Wide latitude; warm tones, portrait, commercial.
HALOBROME	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For commercial photography, photofinishing.
PORTRAYA	Chl-Br.	Enlarg.	Normal	*†	1	1	1	DW. For portrait enlargements; warm tones, wide latitude.
PORTRAYA PROJECTION PROOF	Chl-Br.	Enlarg.	Medium	*†	1	1	1	SW. For photo murals and portrait proofs.
ILFORD (Alco Photo Supply Co.)								
COMMERCIAL	Bromide	Enlarg.	Fast	*†	4	4	2	S&DW. For commercial and portrait work.
DE LUXE	Bromide	Carbro	Fast	*†	1	1	1	Long range; cold tones.
PLASTIKA	Chl-Br.	Enlarg.	Fast	*†	4	4	2	S&DW. Wide latitude; no blocking in shadows; warm blacks.
KILBORN								
COLOMA	Bromide	Enlarg.	Fast	*†	4	3	1	S&DW. For commercial and portrait work; good gradation of tones from black to white.
COMMERCIAL	Chloride	Contact	Normal	*†	4	2	1	S&DW. Full scale; for photo finishing and commercial use.
RAPIDCOPY	Bromide	Enlarg.	Fast	*†	1	1	1	Special weights; non-ortho paper designed for microfilm use.
VERDITONE	Chl-Br.	Enlarg.	Normal	*†	1	3	1	DW. Warm tone; for portraits and making photo murals by projection.
WEIMET								
	Bromide	Enlarg.	Fast	A	1	1	1	SW. Fast paper for general work.
	Chloride	Con-Enl.	Fast	A	4	1	1	SW. For general work.
	Bromide	Enlarg.	Normal	B	1	1	1	SW. For portraits and general work.

HOW TO GIVE YOUR PICTURES A *Professional Look* OF QUALITY



To assure finest work at all times, many photographers use these dependable Du Pont Photographic Products exclusively:

"VELOUR BLACK" PHOTOGRAPHIC PROJECTION PAPER—favorite professional enlarging paper with sensitive emulsion that reacts to slightest differences in negative density. Grade 1 Soft . . . for contrasty negatives. Grade 2 Normal . . . for average negatives. Grade 3 Medium Hard . . . for flat negatives. Grade 4 Contrast . . . for extremely flat negatives.

"VARIGAM" VARIABLE CONTRAST PHOTOGRAPHIC PAPER—a unique paper providing ten degrees of contrast by selection of the proper filters. Basic 5A Set of Filters; Supplementary 5B Set; Complete Set 10C.

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HIGH SPEED PAN—TYPE 428—produces top-quality negatives under the most adverse lighting. Permits extremely fast shutter speed or stopping way down for depth and sharpness. ASA daylight 160; tungsten 125.

"ARROW" PAN—high speed; high red sensitive. Ideal for mass portraiture with daylight or fluorescent lighting and flash exposures. ASA daylight 160; tungsten 125.

"X-F" PAN—medium speed; medium-fine grain; normal scale. Balanced color sensitivity. Best suited to studio portraiture and illustrative photography with tungsten light. Recommended for color separation negatives. ASA daylight 64; tungsten 40.

FINE GRAIN PAN—maximum speed consistent with fine grain. Balanced color sensitivity. Ideal for murals and specialized uses in industrial and scientific photography; photomicrography; commercial copying. ASA daylight 32; tungsten 20.

PROCESS PAN—extremely high contrast for line work; copying. ASA daylight 16; tungsten 10.

TESTED CHEMICAL PREPARATIONS: 53-D—All Purpose Developer • 55-D—Standard Paper Developer • 16-D—Film Developer • 16-DR—Replenisher for 16-D Developer • 18-F—Universal Fixer.

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AMATEUR FILM REFERENCE CHART

This convenient film chart has been prepared to assist the camera owner in quickly finding information relative to certain films which he may use. It is not intended as a comparison of the products of one manufacturer with those of another. A careful reading of the Notes on Films (see page 209) is essential to a full understanding of this information. Film speeds are given only in ASA exposure index numbers and Weston numbers, the rating systems used with exposure meters now being manufactured in the United States.

FILM	TYPE	ASA EXPOSURE INDEX (h)		WESTON SPEEDS** (Weston's Figures)		SPECIAL CHARACTERISTICS, USES, ETC.	FILTER FACTORS: Light Yellow K-1		Medium Yellow K-2		Orange G		Red A		Light Green X-1		Dark Green X-2	
		DAY	TUNG.	DAY	TUNG.		D.	T.	D.	T.	D.	T.	D.	T.	D.	T.	D.	T_2
ANKEN																		
ROLL FILM																		
ANKEN	ORTHO			50	32	Good Resolution; for General Amateur Use	2		2									
ANSCO																		
35-mm SPOOLS																		
(a)ULTRA-SPEED PANCHROMATIC	PAN	100	64	100	64	Extremely Fast; for Unfavorable Light	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(a)SUPREME	PAN	50	32	50	32	Very Fast; Fine Grain; Fully Color Sens	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(z)ANSCO COLOR DAYLIGHT	COLOR	12	3§	10	2(h)§	Positive Color Trans.; Can be Processed by User;												
(z)ANSCO COLOR TUNGSTEN	COLOR	12§	12	10(h)§	10	Screenless, Practically Grainless												
ROLL FILM & FILMPACKS																		
SUPERPAN PRESS	PAN	125	80	100	64	Extremely Fast; Press; Adverse Lighting	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
SUPREME	PAN	50	32	50	32	Medium Speed; Fine Grain; General Work	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
(d)PLENACHROME	ORTHO	50	25	50	32	General Outdoor Work; Wide Exposure Lat.	2	1.5	3	2	6	4			4	3	5	4
(d)ANSCO COLOR DAYLIGHT	COLOR	12		10		Positive Color Trans.; Can be Processed by User;												
(d)ANSCO COLOR TUNGSTEN	COLOR		12		10	Screenless; Practically Grainless; 120 & 620 Only												
SHEET FILM																		
TRIPLE S PAN	PAN	200	160	200	125	Extreme Speed; for Press, Portraits, Etc.	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
SUPERPAN PRESS	PAN	125	80	100	64	High Speed; for Press, Indoors, Action	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
ISOPAN	PAN	50	32	50	32	Medium Speed; Fine Grain; Good Contrast	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
SUPERPAN PORTRAIT	PAN	50	32	50	32	Medium Speed; Fully Color Sens.; Mod. Grain	1.5	1.5	2	1.5	3	2	8	5	4	3	5	4
TRIPLE S ORTHO	ORTHO	125	64	100	64	High Speed; Wide Latitude; Portrait, Comm.	2	1.5	3	2	6	4			4	3	5	4
COMMERCIAL ORTHO	ORTHO	25	12	24	16	Fine Grain; for Copy, Commercial, General	2	1	3	2	6	4			4	3	5	4
ANSCO COLOR DAYLIGHT	COLOR	10		8		See Roll Film												
ANSCO COLOR TUNGSTEN	COLOR		10		8	See Roll Film												
COMMERCIAL	BL. SENS.	25	6	24	8	Mod. Speed; Non-Color Sens.; Copying												
PROCESS	BL. SENS.		6	12	4	High Contrast; Line Copy, Etc.												
DASSONVILLE																		
SHEET FILM																		
DASSONVILLE PANCHROMATIC	PAN			50(h)	32(h)	Medium Speed; Portraiture, Pictorial Work	2		2									
DOVER																		
35-mm CART. (a); ROLL, PACK, & SHEET FILM																		
DOVER	PAN	80	64	80(h)	64(h)	Medium Speed; Fine Grain; Wide Latitude	1.5		2		3		4		4			
DUFAY-CHROMEX																		
DISTS: Continental Photographic Laboratories; General Photographic Supply Co.																		
35-mm SPOOLS						Positive Color Trans.; Can be Processed by User; Additive Micro Screen Type												
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	3(h)§													
SUPER 50 PAN	PAN	64	40	50(h)	30(h)	Fine Grain; Medium Speed; Wide Latitude												
ROLL FILM																		
DUFAY SUPER 80	ORTHO	100	64	80(h)	50(h)	High Speed Ortho; General Purpose												
DUFAY SUPER 100	PAN	125	80	100(h)	64(h)	Fine Grain; High Speed; Wide Latitude	1.75	1.25	2.25	1.25	3	1.5	6.5	6.5	4	3.5	5	4.5
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	(3)(h)§	Positive Color Trans.; Can be Processed by User; Additive Micro Screen Type												
SHEET FILM																		
DUFAYCOLOR (D2 Standard)	COLOR	8	4§	6(h)	3(h)§	For Portraiture & General Commercial Repro. in color												
DUFAYCOLOR (D4 Process Medium)	COLOR	6	2	4(h)	5(h)§	High Contrast; General Commercial Repro. in color												
DU PONT																		
SHEET FILM							(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
HIGH SPEED PAN—TYPE 428	PAN	160	125	125(h)	100(h)	All Purpose; Medium Grain; Extra Fast	1.2	1.2	1.5	1.5	2.5	2	6	4	4	3.5	1.8	1.5
ARROW PAN	PAN	160	125	100	64	High Speed; Press and Commercial	1.2	1.1	1.5	1.3	1.8	1.2	4.3	3	4	3		
X-F PAN	PAN	64	40	50	32	For General Use; Fully Color Sensitive	1.5	1.3	2	1.5	3	1.8	9	4.5	4	3		
ORTHO-7	ORTHO	64	32	100	64	High Speed; Portraiture, Press, Etc.	1.7	1.5	4	2	5	3			4.5	3		
X-F ORTHO	ORTHO	64	32	50	16	Extra Fast; Portraiture, Flash, News	1.7	1.5	4	2	5	3			4.5	3		
FINE GRAIN PAN	PAN	32	20	24	16	Medium Speed; Fine Grain; Wide Latitude	1.3	1.2	1.8	1.5	2.6	2.2	9.5	4.5	4.5	3		
PROCESS PAN	PAN	16	10	12	8	High Contrast, for All Copy Work	1.6	1.2	1.8	1.5	2.4	1.8	8.2	4.5	4.5	6		
COMMERCIAL	BL. SENS.	24	6	24	8	Clear Brilliant Gradation; for Comm. & Copy	4	3	12	9								

EASTMAN

X-F ORTHO	PAN	32	20	24	16	Medium Speed; Fine Grain; Wide Latitude	1·6	1.2	1.8	1.5	2.4	1.8	8.2	4.5	4.5	6				
FINE GRAIN PAN	PAN	16	10	12	8	High Contrast, for All Copy Work	4	3	12	9										
PROCESS PAN	BL. SENS.	24	6	24	8	Clear Brilliant Gradation; for Comm. & Copy														
COMMERCIAL																				

EASTMAN

35-mm SPOOLS; 828 ROLLS																							
(z)(a)KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	Type B Pan; for Indoor-Outdoor; High Speed	1.5	1.5	2	1.5	3	2	8	4	4	3				
(z)(a)KODAK PLUS-X PANCHROMATIC	PAN	50	40	50	32	Fine Grain; Gen'l Miniature Work; Type B	1.5	1.5	2	1.5	3	2	8	4	4	3				
(z)KODACHROME DAYLIGHT TYPE	COLOR	10	2.5§	8	3(e)	Color Transparency; Screenless, Practically Grainless; Processed by Mfr.; for Projection and Prints														
(z)KODACHROME TYPE A	BL. & I. R.		20(b)		8(b)	Use with Red Filter; Unusual Effects														
(y)(a)KODAK INFRARED	PAN		3(t)		2.5(t)	Copy Books, Newspapers, Letters, Etc.				1.5		2		6						
(y)(a)KODAK MICRO-FILE																				
ROLL FILM & FILM PACKS																							
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; Poor Light and Indoors	1.5	1.5	2	1.5	3	2	8	4	4	3				
KODAK PLUS-X PANCHROMATIC	PAN	50	40	50	32	Fine Grain; Wide Latitude; General Use	1.5	1.5	2	1.5	3	2	8	4	4	3				
(d)KODAK VERICHROME	ORTHO	64	32	50	32	High Speed Ortho; General Outdoor Use	2	1.5	2.5	2	5	3								
(d)KODACOLOR DAYLIGHT TYPE	COLOR	25		20		For Color Snapshots; for Color Prints														
(d)KODACOLOR TYPE A	COLOR	12§	20			For Color Snapshots; for Color Prints														
KODAK EKTACHROME DAYLIGHT	COLOR	8		6		120 & 620 only; For Processing by User with Processing Kit														
KODAK EKTACHROME TYPE B	COLOR	6§	10																	
SHEET FILM																							
KODAK TRI-X PANCHROMATIC	PAN	200	160	200	125	Extreme Speed; Type G; Mod. Contrast, Grain	1.5	1.5	2	1.5	2.5	2	6	3	5	4	6	5		
KODAK SUPER PANCHRO-PRESS TYPE B	PAN	125	100	100	64	Very Fast; for Press, Commercial, Flash	1.5	1.5	2	1.5	3	2	8	4	4	3				
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; General Use; Color Sep.	1.5	1.5	2	1.5	3	2	8	4	4	3				
KODAK PORTRAIT PANCHROMATIC	PAN	64	40	50	32	Type B; Moderate Speed; Portrait & General	1.5	1.5	2	1.5	3	2	8	4	4	3				
KODAK PANATOMIC-X	PAN	32	25	24	16	Type B; Extreme Fine Grain; General Use	1.5	1.5	2	1.5	3	2	8	4	4	3				
KODAK ORTHO-X	ORTHO	125	64	100	64	Fast Ortho; Portrait, Commercial, Etc.	2	1.5	2.5	2	5	3								
KODAK SUPER ORTHO PRESS	ORTHO	100	50	100	32	Fast Ortho for Press; Commercial; Flash	2	1.5	2.5	2	5	3								
KODAK COMMERCIAL ORTHO	ORTHO	32	10	24	8	Med. Speed; Commercial; Copy	2.5	2	8	4	16	8								
KODAK INFRARED	BL. & I. R.		20(b)		8(b)	See 35-mm; Haze Penetration, Scientific														
KODAK COMMERCIAL	BL. SENS.	25	6	24	8	Medium Speed; Copy; Commercial														
KODAK CONTRAST PROCESS ORTHO	ORTHO		12(t)		8	High Contrast; Copying Line, Printed Matter		1.5		2		4								
KODAK CONTRAST PROCESS PAN	PAN		16(t)		8	High Contrast; Copying Colored Originals				1.5		2.5		5						
KODAK EKTACHROME DAYLIGHT TYPE	COLOR	8		6		Positive Color Transparencies; Can be Processed by User with Processing Kit														
KODAK EKTACHROME TYPE B	COLOR	6(p)	10	5(p)	8															
KODAK EKTACOLOR	COLOR	5§	8			Color Negative Film; For Processing by User with Processing Kit														
KODAK EKTACOLOR PRINT FILM	COLOR					For Positive Color Transparencies from Kodak Ektacolor Negs.														
KODAK MATRIX FILM	BL. SENS.					For Making Color Prints from Color Separation negatives by Kodak Dye Transfer Process														
KODAK PAN MATRIX FILM	PAN					For Making Color Prints from Kodak Ektacolor Negatives by Kodak Dye Transfer Process														

GEVAERT

35 mm SPOOLS																							
GEVAPAN 27	PAN	32	20	24(h)	16(h)	Fine Grain; for Extreme Enlargements	1.5		2		3		5		3					
GEVAPAN 30	PAN	64	40	50(h)	32(h)	For General Amateur Use; Wide Latitude	1.5		2		3		5		3					
GEVAPAN 33	PAN	125	100	100(h)	80(h)	High Speed Pan	1.5		2		3		5		3					
ROLL FILM																							
GEVACHROME	ORTHO	64	32	50(h)	24(h)	For General Amateur Use and Outdoors	2		2.5											
GEVAPAN 33	PAN	125	80	100(h)	64(h)	High Speed Pan	1.5		2		3		5		3					
SHEET FILM																							
GEVACHROME	ORTHO	100	50	80(h)	40(h)	Fast Orthochromatic; for General Use	2		2.5											
SUPERCHROME	ORTHO	64	32	50(h)	24(h)	Medium Speed Orthochromatic														
GEVAPAN	PAN	125	80	100(h)	64(h)	High Speed Pan; General and Studio Use	1.5		2		3		5		3					
PANCHROMOSA	PAN	80	50	64(h)	40(h)	Fast Pan; General and Studio Use	1.5		1.5		2		6							

SEARS, ROEBUCK

ROLL FILM																							
TOWER	ORTHO	50	25	50(h)	24(h)	General Outdoor Use; Wide Exposure Lat.	2	1.5	2.5	2	5	3			4	3				
TOWER PANCHROMATIC	PAN	64	40	50(h)	32(h)	General Indoor and Outdoor Use; Wide Exposure Latitude	1.5	1	2	1.5	3	1.5	5	2.5	3	2				

SUPER-TOMIC

Dist.: Super-Tomic Products Co.

35-mm SPOOLS																							
SUPER-TOMIC	PAN	250	200			Super-Speed; Ultra Fine Grain; Indoor; Outdoor																	
SUPER-TOMIC COLOR, DAYLIGHT	COLOR	120				Positive Color Transparencies; Processed by Mfgr.																	

WEIMET

35-mm CARTRIDGES																							
GREEN SEAL HIGH SPEED PAN	PAN	64	40	50(h)	32(h)	Fine Grain; Medium Contrast; General Use	1.5		2		3		8		3		5			
ROLL FILM																							
GREEN SEAL HIGH SPEED PAN	PAN	64	40	50(h)	32(h)	As Above; Also Mycro Size for Sub-min. Cameras	1.5		2		3		8		3		5			

NOTES: ASA exposure indices are determined in accordance with a standard procedure set up by the American Standards Association, and are used in calibrating most exposure meters now being made. Where official Weston ratings are given they are supplied by Weston Electrical Instrument Corp.

** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
§ With filter recommended by manufacturer.
(a) Also obtainable in bulk.
(b) With Kodak Wratten A filter (No. 25).
(e) With Kodak Wratten filter No. 80A.
(d) Obtainable in rolls only.
(g) Exact filter factors for sheet films determined for each batch and enclosed with film.
(h) Figures furnished by manufacturer.
(m) For "B" filter.
(n) For C5 filter.
(p) With Kodak Wratten filter No. 85B.
(t) Read meter on white surface placed over copy work.
(y) 35 mm only.
(z) Also available in 20-exposure cartridges.

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Railroads • Real Estate
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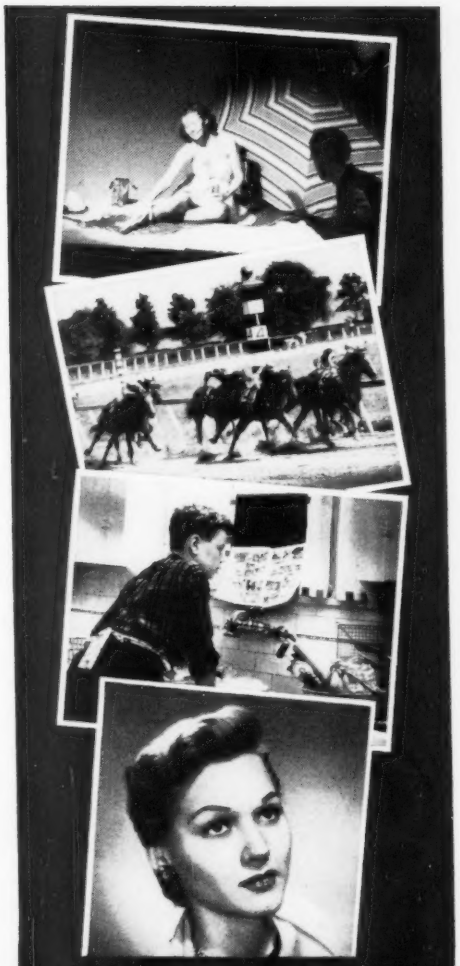

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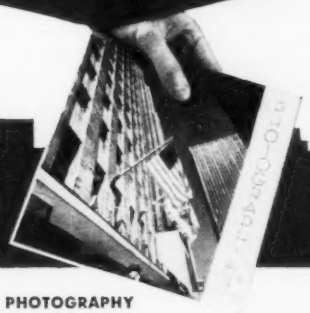

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AMATEUR MOVIE FILM CHART

Film Width in mm	FILM NAME	TYPE Blue Sens., Orthochromatic, Panchromatic, Full Color	A.S.A. EXPOSURE INDEX Day	A.S.A. EXPOSURE INDEX Tung.	WESTON SPEEDS** (Weston's Figures) Day	WESTON SPEEDS** (Weston's Figures) Tung.	LENGTHS in FEET AND PACKING D.L. = Daylight Loading; Mag. = Magazines; B = Bulk	SPECIAL CHARACTERISTICS, FEATURES, AND USES	Processing	POPULAR FILTER FACTORS* (Daylight Only) K-2	G	A
	ANSCO											
16	Hypan Reversible (s)	Pan	40	32	32	24	50, 100, 200, 400 ft. D.L. Rolls	Fine Grain; for General Use; Good Latitude	Free	2	3	8
16	Supreme Negative (s)	Pan	50	32	50	32	100, 200 ft. D.L. Rolls	For Negative Film; Fine Grain; Wide Latitude	Extra	2	3	8
16	Ansco Color Daylight Type (s)	Color	10		8		50,100,200 ft. D.L. Rolls; 50 ft. Rolls	Full Natural Color Film; Screenless; Will be Processed by the Manufacturer	Free			
16	Ansco Color Tungsten Type (s)	Color		12		12	50,100,200 ft. D.L. Rolls; 50 ft. Rolls	Fine Grain; Good Latitude; for General Use	Free			
Dbl. 8	Hypan Reversible	Pan	40	32	32	24	25 ft. D.L. Rolls		Free	2	3	8
	CENTURY PHOTO SUPPLY											
16	Rocket-XXX Reversal	Pan	150	100	(h) 120	(h) 80	100 ft. D.L. Rolls; 50 ft. Mag.	Very High Speed; Normal Grain	Free			
16	Century Cinetomic Reversal	Pan	20	5	16	4	100 ft. D.L. Rolls; 50 ft. Mag.	Fine Grain; Non-halation	Free			
Dbl. 8	Century Cinetomic Reversal	Pan	20	5	16	4	25 ft. D.L. Rolls	Same as above	Free			
	DASSONVILLE									K-1	K-2	K-3
16	Dassonville Type 40 (Rev.)	Pan	50		(h) 40		25, 100 ft. D.L.	High Speed; Medium Grain; Good Latitude	Free	1.5	2	3
16	Dassonville Type 80 (Rev.)	Pan	100		80		25, 100 ft. D.L.	Extreme Speed for Adverse Lighting	Free	1.5	2	3
Dbl. 8	Dassonville Type 40 (Rev.)	Pan	50		40		25, 100 ft. D.L.	High Speed; Medium Grain; Good Latitude	Free	1.5	2	3
Dbl. 8	Dassonville Type 80 (Rev.)	Pan	100		80		25, 100 ft. D.L.	Extreme Speed for Adverse Lighting	Free	1.5	2	3
	DU PONT											
16	301 Pan (Neg.)	Pan	64	40	(h) 50	(h) 32	100 ft. D.L.; 400, 800, 1000, 1200 ft. Bulk	Fine Grain; Wide Latitude; Good Rendition of Flesh Tones	Extra			
16	314 Pan (Neg. or Rev.)	Pan	40	25	32	20	Same as above	Fine Grain; Wide Latitude; Medium Speed	Extra			
16	330 Rapid Reversal Pan	Pan	64	40	50	32	Same as above	Esp. for Rapid Reversal; Fine Grain; Wide Lat.; Television and Motion Picture Production	Extra			
	DYNACOLOR											
16	Dynacolor, Daylight Type	Color	10	4(a)	(h) 8	(h) 3(a)	100 ft. D. L. Rolls; 50 ft. Mag.	Full Natural Color Film; Subtractive Dyed Image Type; Screenless; Practically Grainless; Tungsten Type is Color Balanced for Photoflood Illumination	Free			
16	Dynacolor, Tungsten Type	Color	10(a)	16	8(a)	12	Same as above		Free			
Dbl. 8	Dynacolor, Daylight Type	Color	10	4(a)	8	3(a)	25, 100 ft. D.L. Rolls		Free			
Dbl. 8	Dynacolor, Tungsten Type	Color	10(a)	16	8(a)	12	Same as above		Free			
	EASTMAN									K-2	CK-3	A
16	Cine-Kodak Super-XX Panchromatic (Rev.)	Pan	100	80	100	80	50, 100, 200 D.L. Rolls; 50 ft. Mag., for others see (e)	High Speed Type C Pan; Indoor, Slow Motion	Free	2	2	8
16	Cine-Kodak Super-X Panchromatic (Rev.) (s)	Pan	40	32	32	24	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Fine Grain; Good Contrast; Type C Pan	Free	2	2	8
16	Cine-Kodak Kodachrome, Daylight Type (s)	Color	10	4(a)	8	3(a)	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Balanced for Photoflood Illumination	Free			
16	Cine-Kodak Kodachrome, Type A (Photoflood) (s)	Color	10(a)	16	8(a)	12	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Fine Grain; Good Contrast; Type C Pan	Free	2	2	8
Dbl. 8	Cine-Kodak Super-X Panchromatic (Rev.)	Pan	40	32	32	24	25 ft. D.L. Rolls; 25 ft. Mag.	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Color Balanced for Photoflood Illumination	Free			
Dbl. 8	Cine-Kodak Kodachrome Daylight Type	Color	10	4(a)	8	3(a)	25 ft. D.L. Rolls; 25 ft. Mag.		Free			
Dbl. 8	Cine-Kodak Kodachrome Type A (Photoflood)	Color	10(a)	16	8(a)	12	25 ft. D.L. Rolls; 25 ft. Mag.		Free			
16	Kodak Super-XX Blue Base Reversal	Pan	100	80			100, 200 ft. camera spools; 400, 1200 ft. Bulk	High Speed Reversal; for processing by user; Type C Pan	By user			
16	Kodak Super-X Blue Base Reversal (s)	Pan	40	32			Same as above	Medium Speed; General Purpose; for processing by user; Type C Pan	By user			
16	Kodak Super-XX Negative (s)	Pan	160	100			100, 200 ft. D.L. Rolls; 400 ft. Bulk	High Speed Panchromatic Negative Film; Type 7232				
16	Kodak Panchromatic Negative (s)	Pan	64	40			Same as above	Medium Speed Panchromatic Negative Film; Type 7230				
16	Kodak Fine Grain Positive (s)	Bl. Sens.		0.6(w)			100, 200, 400 ft. Bulk	For Printing From Negatives, Title Making; Type 7302				
Dbl. 8	Kodak Super-X Blue Base Reversal	Pan	40	32			25 ft. D.L.; 100 ft. for 8-mm Bolex Camera		By user			
Dbl. 8	Kodak Fine Grain Positive	Bl. Sens.		0.6			100 ft. Bulk	Medium Speed, General Purpose; for processing by user For Printing From Negatives, Title Making; Type 7302				

Dbl. 8	Kodak Super-X Blue Base Reversal	Pan	40				Camera 100 ft. Bulk	Medium Speed; General Purpose; For Printing From Negatives, Title Making; Type 7302				
Dbl. 8	Kodak Fine Grain Positive	Bl. Sens.		0.6								
	ESO-S											
16	Hi-Speed (Rev.)	Pan	125	100	(h) 100	(h) 80	100 ft. D.L. Rolls; 50 ft. Mag., also 100 ft. Bulk	Very High Speed; for Indoor Use	Free*			
16	Standard (Rev.)	Ortho	20	5	16	4	50 ft. Mag., also 100 ft. Bulk	For Outdoor Use; Fine Grain	Free*			
16	DeLuxe Sepia (Rev.)	Ortho	20	5	16	4	100 ft. D.L. Rolls; 50 ft. Mag., also 100 ft. Bulk	Special Sepia Processing; Suitable for Editing into Color Reels	Free*			
Sgl. 8	Hi-Speed (Rev.)	Pan	125	100	100	80	25 ft. D.L. Rolls; 100 ft. Bulk	Very High Speed; for Indoor Use	Free*			
Dbl. 8	Standard (Rev.)	Ortho	20	5	16	4	25 ft. D.L. Rolls; 100 ft. Bulk	For Outdoor Use; Fine Grain	Free*			
	DeLuxe Sepia (Rev.)	Ortho	20	5	16	4	25 ft. D.L. Rolls; 100 ft. Bulk	Special Sepia Processing; Suitable for Editing into Color Reels	Free*			
	ESO-S Color	Color	10	2.5	8	2	25 ft. D.L. Rolls	Full Color Film	Free*			
	GEVAERT									K-1	K-2	K-3
16	Gevapan 32	Pan	100	64	(h) 50	(h) 32	100 ft. D.L. Rolls	Full Color Sensitivity; Indoors, Outdoors	Free	1.5	2	2
16	Gevapan 26	Pan	25	16	20	10	100 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
16	Gevapan 23	Pan	12	8	10		100 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3
Dbl. 8	Gevapan 26	Pan	25	16	20	10	25 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
Dbl. 8	Gevapan 23	Pan	12	8	10		25 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3
	IDEAL											
16	Ideal Panchromatic (Rev.)	Pan	64	40	(h) 50	(h) 32	100 ft. D.L. Rolls; 50 ft. Mag., also 100, 400 ft. Bulk	Free Titles Except with Bulk	Free*			
16	Ideal Colorchrome	Color	12	16	10	12	100 ft. D.L. Rolls; 50 ft. Mag.	Free Titles	Free			
Dbl. 8	Ideal Panchromatic (Rev.)	Pan	64	40	50	32	25 ft. D.L. Rolls; 25 ft. Mag.	Free Titles Except with Bulk	Free*			
Dbl. 8	Ideal Colorchrome	Color	12	16	10	12	Same as above	Free Titles	Free			
	KIN-O-LUX									K-2	G	A
16	No. 1 Reversal (s)	Bl. Sens.	16	(n)	(h) 12	(h) (n)	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Recommended for Outdoor Use Only				
16	Kin-O-Lux T-V (Rev.) (s)	Pan	64	50	50	40	50, 100, 200 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
16	Gold Seal Reversal (s)	Pan	(n)	125	(n)	100	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Use Under Poor Light or Tungsten				
Dbl. 8	No. 2 Reversal	Bl. Sens.	16	(n)	12	(n)	25 ft. D.L. Rolls	Recommended for Outdoor Use Only				
Dbl. 8	Kin-O-Lux T-V (Rev.)	Pan	64	50	50	40	25 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
Dbl. 8	Gold Seal Reversal	Pan	(n)	125	(n)	100	25 ft. D.L. Rolls	Use Under Poor Light or Tungsten				
	SOLAR CINE PRODUCTS											
16	Solar Type 12 (Rev.) (s)	Ortho	16	8	(h) 12	(h) 6	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 200 ft. Bulk	Fine Grain; Wide Latitude; Outdoor Use	Free*			
16	Solar Type 24 (Rev.) (s)	Pan	32	20	24	16	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 200 ft. Bulk	Fine Grain; General Outdoor and Indoor Use	Free*			
16	Solar Type 100 (Rev.) (s)	Pan	125	80	100	64	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 200 ft. Bulk	Super-Speed Pan for Indoors, Poor Light Outdoors	Free*			
16	Solar-Color Outdoor (Daylight Type) (s)	Color	10	4 (a)	8	3 (a)	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 200 ft. Bulk	Natural Color, Subtractive Dyed Image Type; Screen-	Free*			
16	Solar-Color Indoor (Photoflood Type) (s)	Color	10 (a)	16	8 (a)	12	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 200 ft. Bulk	less; Grainless; Indoor Balanced for Photoflood	Free*			
Dbl. 8	Solar Type 12 (Rev.) (s)	Ortho	16	8	12	6	25 ft. D.L. Rolls; 50 ft. Mag.; Bulk.	Fine Grain; Wide Latitude; Outdoor Use	Free*			
Dbl. 8	Solar Type 24 (Rev.) (s)	Pan	32	20	24	16	25 ft. D.L. Rolls; 50 ft. Mag.; Bulk.	General Outdoor and Indoor Use	Free*			
Dbl. 8	Solar Type 100 (Rev.) (s)	Pan	125	80	100	64	25 ft. D.L. Rolls; 50 ft. Mag.; Bulk.	Super-Speed Pan for Indoors, Poor Light Outdoors	Free*			
Dbl. 8	Solar-Color Outdoor (Daylight Type) (s)	Color	10	4 (a)	8	3 (a)	25 ft. D.L. Rolls; 50 ft. Mag.; Bulk.	Natural Color, Subtractive Dyed Image Type; Screen-	Free*			
Dbl. 8	Solar-Color Indoor (Photoflood Type) (s)	Color	10 (a)	16	8 (a)	12	25 ft. D.L. Rolls; 50 ft. Mag.; Bulk.	less, Grainless; Indoor Balanced for Photoflood	Free*			
	SUPER-TOMIC PRODUCTS											
16	Super-Tomic	Pan	250	200			100 ft. D.L. Rolls	Extremely High Speed; Fine Grain; High Contrast				
	SUPERIOR BULK FILM									K-2	G	A
16	Superpanex No. 24 (Rev.) (s)	Pan	32		(h) 24	(h) 16	50, 100 ft. D.L. Rolls; 50 ft. Mag.; 100, 400 ft. B	General Use Outdoors, Indoors; Fine Grain	Free*	2	3	3
16	Superpanex No. 64 (Rev.) (s)	Pan	80		64	40	Same as above	Extreme Speed; Good Contrast; Wide Latitude	Free*	2	3	3
16	Superior Regular (Rev.) (s)	Ortho	10		8		50, 100 ft. D.L.; 100, 400 ft. B	Fine Grain; High Contrast	Free*			
16	Superior Plus (Rev.) (s)	Ortho	16		12	3	Same as above; also 50 ft. Mag.	Fine Grain; Good Contrast	Free*			
	Superpanex No. 24 (Rev.)	Pan	32		24	16	25 ft. D.L. Rolls	General Use Outdoors, Indoors; Fine Grain	Free*	2	3	3
Sgl. &	Superpanex No. 64 (Rev.)	Pan	80		64	40	25 ft. D.L. Rolls	Extreme Speed; Good Contrast; Wide Latitude	Free*	2	3	3
Dbl. 8	Superior Regular (Rev.)	Ortho	10				25 ft. D.L. Rolls	Fine Grain; High Contrast	Free*			
	Superior Plus (Rev.)	Ortho	16		12	3	25 ft. D.L. Rolls	Fine Grain; Good Contrast	Free*			
	WEIMET									K-2	G	A
16	Weimet Green Seal (Rev.)	Pan	40	32	(h) 32	(h) 24	100 ft. D.L. Rolls; 50 ft. Mag.	Fine Grain; Brilliant Contrast; Good Latitude	Free	2	3	8
Dbl. 8	Weimet Green Seal (Rev.)	Pan	40	32	32	24	25 ft. D.L. Rolls	Same as above	Free	2	3	8

NOTES:

ASA exposure indices are determined according to a standardized procedure set up by the American Standards Association. Where official Weston ratings are given they are the latest supplied by Weston Electrical Instrument Corp.

* Free processing on D.L. and Magazines only.
** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
(a) With filter recommended by the manufacturer.
(c) 50 ft. Packettes for Simplex Pockette and Filmo 121.

(h) From figures furnished by the manufacturer or distributor.
(n) Not recommended for use with this illumination.
(s) Also available single perforated for sound.
(w) Trial exposure on white card with no lettering.

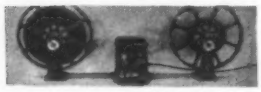
MOVIE EDITING EQUIPMENT

ADVANCE CINE

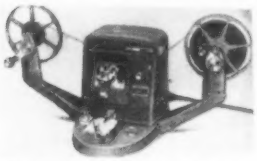
A.C.E. Rotary Viewer. For 35 mm; all-metal construction; manual and electrical operation; permits viewing of film between rewinds; forward or backward, at rewinding speed; has oil-less bearings; magnifier gives undistorted viewing; frame counter. Price, $145.

MFR. Advance Cine Equipment.

BELL & HOWELL



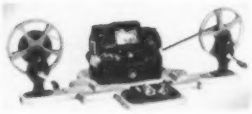
Filmotion Editor 16 mm. For 16 mm; all-metal construction; manual operation; in combination with splicer, viewer, and 2 rewinds; Viewer has groundglass with magnifying lens; diagonal splice; 2-speed geared rewinds with brake; frame identification device; gives brilliant, miniature movies on 3x2½" screen. Price, $155.95. Case available as accessory.



Filmotion Editor 8 mm. For 8 mm; all-metal construction; manual operation; in combination with splicer, viewer, and two rewinds; viewer has groundglass with magnifying lens; diagonal splice, geared rewinds; gives miniature movies, 2¼x1¾" screen. Price, $122.50. Case available as accessory.

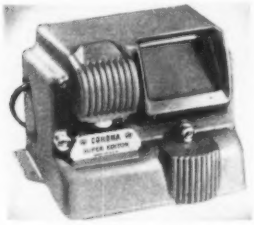
MFR. Bell & Howell Co.

CORONA



Corona President Editor. For 8 and 16 mm; all-metal construction; manual operation; in combination with splicer, 2 800-ft. rewinds and viewer; has interchangeable optical system for 8 or 16 mm; notching device marks film frame viewed; framing device; cooling system; prism operated; 75-watt lamp; has collapsible mounting board; with case available as an accessory. Price, $97.75 with 16 mm optical mechanism; $94.50 with 8 mm optical mechanism. Price of case, $17.

Corona Super Editor. For 8 or 16 mm; aluminum construction; prism operated; manual operation; in combination with 2 rewinds, splicer, and viewer. Price, $49.50 for 16 mm; $47.95 for 8 mm.



Corona Super Viewer. For 8 or 16 mm; manual operation; prism operated; aluminum construction. Price, $32.50 for 8 mm; $33.95 for 16 mm.

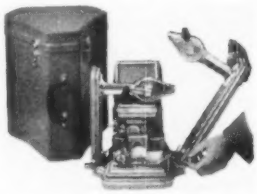
Corona Film Cleaner and Preserver. Can be permanently attached to the President Dual Editor or with any rewinds and projectors; interchangeable wiper blades squeeze excess fluid from film; chromium plated. Price, $7.95. Accessories include extra wipers, 25 cents each; 6-oz. bottles of fluid, 55 cents.

Corona Splicer - Cleaner - Rewind Combination. For 8 and 16 mm; wood and metal construction; manual operation; standard splicer, 2 800-ft. rewinds, Cleaner & Preserver unit; mounted on walnut-finished board. Price, $24.75.

Rewind and Standard Splicer Combination. For 8 and 16 mm; standard splicer; 2 800-ft. rewinds; mounted on 24-inch board. Price, $16.95.

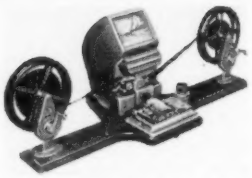
MFR., Photographic Industries.

CRAIG

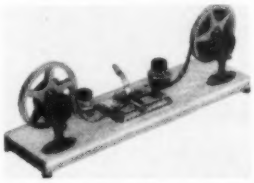


Craig "Fold-Away" Projecto-Editor. All-metal construction; manual and electrical operation; in combination with splicer, viewer, and 2 rewinds; electric illumination viewer; flickerless action editing on 3⅛x4¼" screen; matched light equal to normal home projection; features folding arms which permit storage in compact luggage-type carrying case; available in 8 or 16 mm combinations. Prices from $94.95 to $113.95; folding base only, $14.45; carrying case only, $17.50. All new Projecto-Editors can be converted to folding models.

Craig 8 and 16 mm Projecto-Editors. Similar to above model, but without folding baseboard; wood and



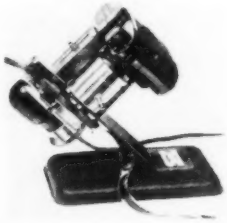
model construction. Price, 8 or 16 mm viewer only, $57.95; 8-mm Combination: Model E811 with Junior 400-ft. rewinds and Junior splicer, $69.95; Model E821 with Junior rewinds and Senior splicer, $79.95; Model E822 with Senior 400-ft. rewinds and Senior splicer, $84.95. 16 mm Combinations: Model E1622 with Senior rewinds and Senior splicer, $84.95; Model E1623 with Master 2000-ft. rewinds and Senior splicer, $86.95.



Craig Rewind Combinations. Available in 3 models: Craig Junior Combination with Craig Junior rewinds, Craig Junior splicer, film cement, water container on wood base; price, $12.95. Craig Senior Combination for 8 or 16 mm; includes Senior splicer, Senior rewinds, brake for speed and tension control; mounted on wood base. Price, $31.50. Craig Master Combination for 8 or 16 mm; similar to Senior Combination but with Master rewinds for 2000-ft. reels. Price, $33.50.

MFR., The Kalart Co.

FEDERAL

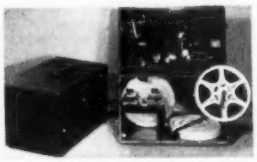


Federal Enlarging Camera. Enlarges movie frame on No. 127 film; 8 exposures, 1⅝x2½; roll of still film developed and printed in regular manner; built-in light source; magnifying Select-A-Frame device for choosing individual frames; selected frame locks into place; no cutting or splicing; unit adjustable to users' vision; Model 8A for 8 mm film; Model 16A for 16 mm film. Price of each, $20 including tax.

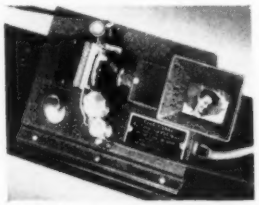
MFR., Federal Mfg. & Eng. Corp.

KODAK

Cine-Kodak Senior Editor. For 8 and 16 mm; wood and metal construction; manual operation; in combination with Cine-Kodak Senior splicer, and 2 rewinds; combination mounted on hardwood base. Price, $37.50 including film cement. Accessories include Cine-Kodak Editing Viewer, 8 or 16 mm.



Cine-Kodak Editing Kit. Available in 2 styles, for 8 or 16 mm; complete editing "work bench" in luggage-type carrying case 14-in. wide; includes rewinds, Cine-Kodak Editing Viewer and Senior splicer positioned for accessibility and working convenience; trays for film strips and space for reels and can provided. Price, either 8 or 16 mm, $85.

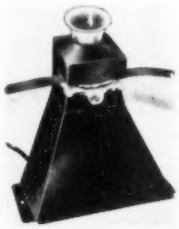


Cine-Kodak Editing Viewer. Two models, for either 8 or 16 mm; metal base; gives illuminated, magnified view; metal base for mounting on any horizontal rewind board; marking device makes harmless nick on edge of film; operates 100-125 volts. Price, either 8 or 16 mm, $27.50.

MFR., Eastman Kodak Co.

MARKS

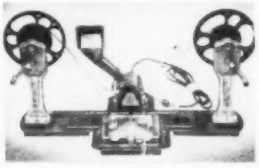
Crest Film Viewer and Splicer. Two models for use with 8 or 16 mm; ball bearing focusing lens mount; on-off switch; all-metal construction; splicer has external scraper. Price, complete with cord, lamp and bottles, $9.95.



Marks Movie Viewer. For 8 and 16 mm; focusing lens; manual operation; provisions for mounting on rewind board; all-metal construction; 10-watt frosted lamp; 6 ft. cord. Price, $5.95.

MFR., Howard B. Marks Co.

MANSFIELD



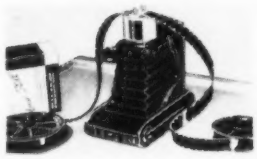
Mansfield Senior Editor 800. For 8 mm; all-metal construction; manual operation; complete with splicer, 2 rewinds and viewer; uses 6-watt lamp. Price, $25.95, inc. tax.

Mansfield Junior Editor. For 8 and 16 mm; wood and metal construction; in combination with 2 horizontal rewinds, splicer, and reflex-type viewer; non-electric, for use in artificial or daylight; rubber bumpers on base; takes up to 2000 ft. reels. Price, with Junior splicer, $7.50; with Auto splicer, $10.95.
MFR., Mansfield Industries, Inc.

MICO

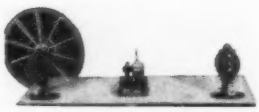
Mico Film Editor. For 8 and 16 mm; new Model II focusing; all-metal construction; large viewing screen; electrical operation; notching device marks film above frame to be cut for splicing. Price, $15.95.
MFR., Wolk Mfg. Co.

MOVIECRAFT

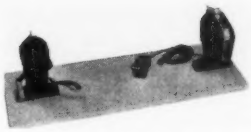


Movie-Still. Unit used in conjunction with still camera to enlarge movie frames; recommended for cameras using No. 120 or 116 size including reflex cameras; on 116 size film unit produces 1½x2 negative; on 120, 1-9/16x1-1/6 negative; device fits over camera lens while exposure is made; user can see enlarged view of selected frame before exposure; no cutting or splicing of film; for 8 and 16 mm. Price, $5.95 including tax.
MFR., The Moviecraft Co.

NEUMADE



Neumade Editing Board No. 1. For 16 mm; combination of Griswold HM-6 Splicer and cement, and 2 Neumade RW-I rewinds with 2000 ft. reel capacity; mounted white enamel wood panel, 40x13, with felt bottom and rubber feet. Price on request.

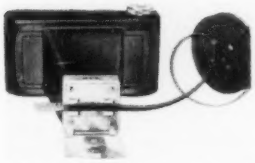


Power Rewind Assembly PD-1. For 16 mm; white enameled wood base, 40x13; for electrical operation, in combination with splicer, measuring machine, synchronizer, etc.; left-hand unit geared with instant stop arm-brake; speed of power unit controlled with foot rheostat; slip clutch provides protection against cinching; fan-cooled motor; heavy-duty rewinds having 2000 ft. reel capacity. Price on request.
DIST., Neumade Products Corp.

SUPERIOR

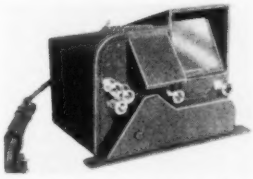
Cine Printer. For 8 and 16 mm; negative, positive, and color films; motor drive; all-metal construction; viewing window for visual printing control; 11 light adjustments for printing control; light powered by dry cell; film capacity, 400 ft.; operates 100-120 volts a-c; prints at rate of 20 ft. per minute. Price, $75.75 including tax.
MFR., Superior Bulk Film Co.

TESTRITE



Cinelarger 8-16. Enlarges movie frame on No. 620 film; roll of still film developed and printed in regular manner; used in conjunction with No. 2 floodlamp; no cutting or splicing; built-in lens and shutter. Price, for either 8 or 16 mm model, $13.95 plus tax.
MFR. Testrite Instrument Co., Inc.

U. S. PHOTOGRAPHIC



Kaydee Movie-Action Editor. For 8 or 16 mm; manual operation; electrical illumination; 3x4 viewing screen; all-metal construction; ventilation provision; can be mounted on rewind board; off-on switch. Price, less lamp, $29.95.
MFR., U. S. Photographic Equipment Corp.

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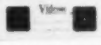

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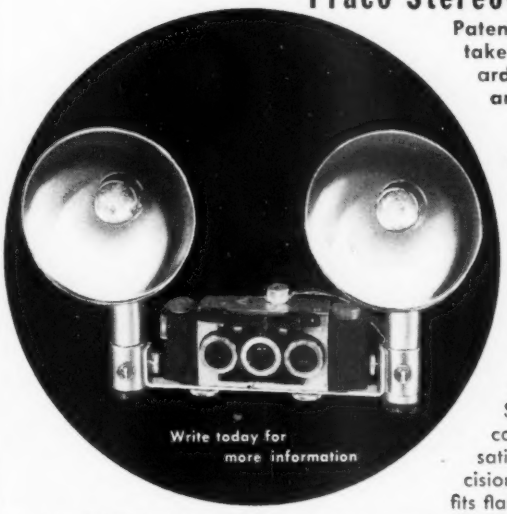

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A-to-Z

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MFR., A-to-Z Movie Accessories.

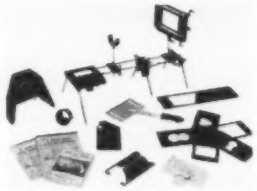
AREL

PM Movie Titler. For 8 and 16-mm cameras; all-metal construction; full size titler with built-in lights; professional attachments; 36" overall length; 9x12" titling board with interchangeable ground and clear glass; provisions for running titles, flips, zooms, scrolls, rolls, double exposures, tabletop photography; permits full size letters and character. Price, including copying lens, universal camera base, reflector, sockets, and cords, $39.50.

DIST., Arel, Inc.

BARDWELL & McALISTER

Mult-Efex Titler. Two models for 8 and 16-mm cameras; the only difference is the diopter size of the



auxiliary lens on the 16 mm model; makes zooms; scrolls, rolls, flip-flops, swing - forward - and - back, swing around, wipes, and other titles; for trick effects and split screens; equipped with Mult-Efex Aligner for centering of titles and small objects; all-metal construction. Price, $40.

MFR., Bardwell & McAlister, Inc.

BOLEX

Bolex Titler. For all still and movie cameras, with special provisions for Bolex H-16 and H-8; all-metal construction; accurate fittings and centering; rack-over for Bolex and other cameras; movable reflectors; slide for zooms, stop for zooms; built-in tape measure; one-two-three plane arrangement; can be used in vertical or horizontal position; can be used as animation stand. Price, $154.50, complete with following: frame for mounting reflectors, 2 reflectors, 1 title frame in 2 parts, and supporting stem; sliding camera cradle; celluloid framing card; lamp for framing 8-mm cameras; wooden case. Extra accessories include adjustable main support, plate with slide grooves and guides, 2 flip-flops, hand crank, hollow frame, titling disc, revolving drum, frame for transparencies, hand-crank drive, rolling screen, movable support with ring. Price of entire set of extra accessories, $141. Price of complete titler, $295.50.

DIST., Paillard Products, Inc.

DEJUR

Title Camera Stand EPC. For 8 and 16-mm cameras; wood and metal construction; can be used with still cam-

eras; vertical-type titler; handles title sizes from 3x4 to 15x20; counterbalanced camera support; lights with flexible supports; large baseboard; camera support. Price, $46.50. Available without lights if desired.

MFR. DeJur-Amsco Corp.

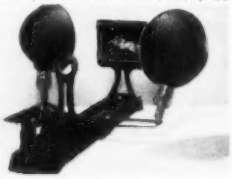
GOERZ

Goerz Effect and Title Device. For 8 and 16-mm cameras; wood and metal construction; focusing scope is mounted next to camera; has magnifying eyepiece; masked ground-glass for correct focusing; vignetting device adjustable up or down; fits over large aperture of f/1.5 lenses; includes filter holder, mask box, book-style paper carrier, movable title standard; base slide for holding camera, and title attachment with long rods. Price, $183.50.

MFR., C. P. Goerz American Optical Co.

HOLLYWOOD CINE

Master Titler. For 8 and 16-mm cameras; all-metal construction; au-



tomatic alignment when camera is locked into position on the camera base; tailored camera base; covers areas from 4 inches to 40 inches from the camera lens; includes track, title holder, lens holder, 12 auxiliary lens; camera base, tripod plate, centering disc, centering target, lens spring, and instruction booklet. Price, $11.10, plus tax. Accessories include Titltrix, for trick and effect shots, $5.50; Titlites, for lighting title area, $5.50; Titlettes, metal letters, Titlkit, kit of scenes, and Titliner E for aligning titles, $5.

MFR., Hollywood Cine Products.

KELSEY

Excelsior Printing Press. For 8 and 16-mm use; all-metal machine uses

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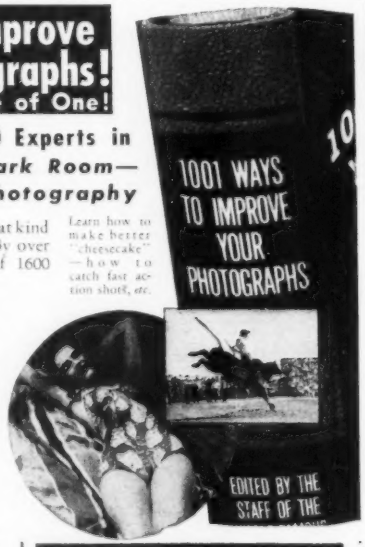

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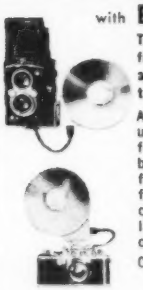

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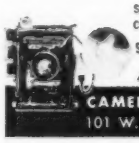

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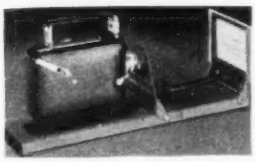
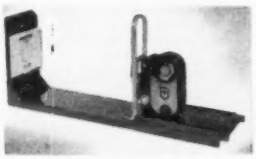
regular printer's type and regular printer's cuts; complete with type ink and all accessories for printing titles. Price, $38.56 and up. Accessories include variety of type styles, cuts, fancy borders, etc.
MFR., The Kelsey Co.

KODAK



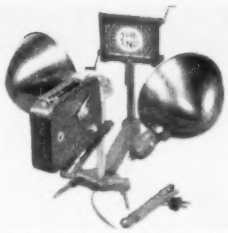
Cine-Kodak Titler. For 8 and 16-mm cameras; all-metal construction; designed for all Cine-Kodak cameras except Model A and Special; package of title cards included; base, easel, centering guide, 5¾" supplementary diopters lens. Price, $7.50. Accessories available include titler base for Magazine 8 camera, and several other Cine-Kodak cameras.
MFR., Eastman Kodak Co.

MANSFIELD



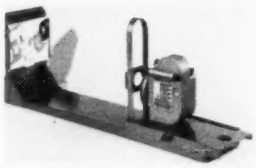
Mansfield Combination 8-16. For 8 and 16-mm cameras; all-metal construction; alignment target; auxiliary lens mounted in vertical column; folds for storage. Price, $6.95.
MFR., Mansfield Industries, Inc.

PHOTO MATERIALS



Premier Titler Model WL. For 8 and 16-mm cameras; all-metal construction; consists of flat camera mount; centering device; alignment target; 8-inch supplementary lens; lens standard; hinged camera bracket; standard flat, metal base; for zooms, wipes, rolls, and all special effect; 2 lights permanently mounted to unit. Price, $14.95 plus tax; MODEL ML, same as above but without lights, $8.95 plus tax.
MFR., Photo Materials Co.

SUPERIOR



Universal Cine Titler. For 8 and 16-mm cameras; all-metal construction; can be used vertically or horizontally; 4x5 field; supplementary lens; instruction booklet on titling. Price, $5.95 including tax.
DIST., Superior Bulk Film Co.

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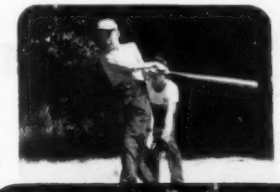

. . . and I got the freckles on his nose!"

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BERTRAM AMATEUR

Photoelectric type for still and movie cameras; daylight and tungsten light; measures reflected light; reads direct from f/2 to f/22; progresses in full stops; calibrated in ASA, Schneider, and Din ratings; exposure times from 4 minutes to 1/1600 sec.; lapel chain furnished. Price, $14.95.

CHRONOS

Photoelectric type for still and movie cameras; for daylight and tungsten light; measures reflected light; reads direct from f/1.4 to f/32, progressing by half stops; calibrated in ASA; exposure times from 30 seconds to 1/1000 sec.; snap-face lid completely encloses mechanism; extremely small. Price, $22.50.
DIST., Willoughbys, Inc.

DEJUR DUAL LIFETIME PROFESSIONAL

Photoelectric type for still and motion pictures; by daylight and artificial light; measures reflected and incident light; reads direct from f/1 to f/45; ASA Exposure Indexes from .8 to 800; reads in 1/3 stops; exposure times from 120 seconds to 1/800 sec., automatic dial shift for incident or reflected light; red dot at 1/32 sec. Price, $23.95; eveready leather case, $2.25.
MFR., DeJur-Amsco Corp.

EXPOPHOT

Extinction type for still pictures; for daylight and tungsten light; measures reflected light; calibrated in ASA Exposure Index from 1.2 to 1000; from f/2 to f/32; exposure times from 30 seconds to 1/1000 sec.; reads direct;

exposures progress by full stops. Price, $1.49.
DIST., Willoughby's.

GENERAL ELECTRIC MODEL DW-68

Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected and incident light; removable hood for incident light readings by conversion from f/1 to f/45 progressing by 1/3 stops; ASA Exposure Indexes from .8 to 800; exposure times from 120 seconds to 1/800 sec.; reads directly in foot candles. Price, $21.80; case available for $2.

GENERAL ELECTRIC MODEL PR-1

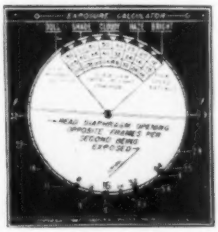
Photoelectric type for still and movie cameras; by daylight and artificial light; measures reflected and incident light; reads direct by 1/3 stops from f/1 to f/128; ASA Exposure Indexes from .2 to 1600; exposure times from 120 seconds to 1/3000 sec.; cine speeds in frames per second; trident analyser; automatically shifts range from High to Low; for movies and stills on one dial. Price, $29.25; case available for $2.25.

GENERAL ELECTRIC MASCOT PR-30

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected light; reads direct in full stops from f/1.4 to f/32; calibrated in ASA system; two exposure speeds, 1/50 sec. for stills and 16 frames-per-second for movies; jeweled microammeter movement. Price, $15.25. Eveready case, $1.50.
MFR., General Electric Co.

GROVER EXPOSURE CALCULATOR

Slide-rule type made of polished metal that attaches to either movie or still cameras; two separate models; one for still, and one for movie cameras; still type for daylight; calibrated in ASA, Weston, and G-E



ratings; reads from f/1.9 to f/32; exposure times from 1/5 sec. to 1/400 sec.; installs on any 2-inch square surface. Price, $1.25 including tax.
MFR., Grover Photo Products.

HILBA COLOR LUX

Independent photoelectric cell, protected by long hood with 2 neutral density filters; for still and movie cameras; reads incident light up to 48,000 foot-candles, reflected light from 1 to 500 ASA; reads in 1/3 stops; exposure times from 64 seconds to 1/1000 sec.; movie speeds from 1 to 400 frames per second; determines gray scale values for B-W at rate of 1 to 30, for color at 1 to 5; reading determined by regulating built-in resistance unit; standard calibration can be individually changed. Price, $133.50.
DIST., Heitz & Lightburn.

IDEAL

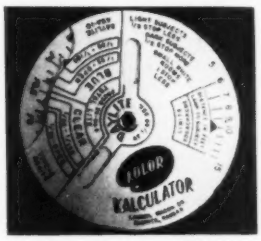
Photoelectric type for still and movie cameras; for daylight and tungsten light; measures incident light; reads direct by half stops from f/1.9 to f/22; calibrated in ASA system for emulsion speeds from 4 to 128; pointer indicates f/stop; fresnel light-collecting lens over photoelectric cell. Price, $8.95.
MFR., Federal Instrument Corp.

IKOPHOT IIA

Photoelectric type for still and motion pictures; for daylight and artificial light; measures reflected and incident light; ASA calibration of

emulsion speeds from 3 to 800; reads direct with apertures from f/1.5 to f/22; progresses in half stops from f/1.5 to f/5.6, in full stops from f/5.6 to f/22; exposure times from 60 to 1/1000 sec.; movie speeds available by conversion; plastic construction. Price, inc. eveready case, incident light attachment, and silk neckcord, $28.
DIST., Carl Zeiss, Inc.

KOLOR KALCULATOR



Slide rule type made of plastic-coated laminated material; primarily intended for user of 35-mm color film; calibrated in ASA ratings, progressing by half stops from f/2 to f/32; also serves as a film latitude guide, and as exposure guide for synchro-sunlight work. Price, 65 cents.
MFR., Laurel Macon Co.

KODAGUIDES

Film and Filter Kodaguide. Pocket-sized, four-page chart listing exposure indexes of ASA, Weston, and G-E; color sensitivity of Kodak black-and-white roll films, film packs, miniature and sheet films; sheet film code notches; color transmission spectrograms of six filters; their exposure factors, and color rendering; for still and movie cameras, by daylight and artificial light. Price, 15 cents.

Movie Kodaguide. Pocket-sized, four-page chart and slide rule with two dials; for movies by daylight or artificial light; reads direct for Cine-Kodak films, black-and-white and color. Price, 25 cents.

Effective Aperture Kodaguide. Pocket-size card with dial; for still pictures and movies, by daylight, artificial light, and flash exposures; modify exposures of subjects closer than eight times the focal length of the camera lens. Applies to lenses from 1 to 30 inches in focal length. Price, 15 cents.

Outdoor Filter Kodaguide. Pocket-size chart with dial for still pictures; indicates the proper filter to use

for a number of outdoor subjects, and calculates exposure corrected by filter factor. Price, 15 cents.

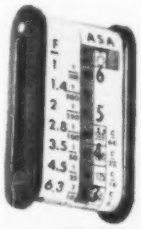
Home Lighting Kodaguide. Pocket-sized "slide-rule" type card with dial; for still and movie cameras by artificial light; for exposure of Kodak Super-XX film based on total wattage of home service lamps and average distance of lamps from subject. Price, 15 cents.

Snapshot and Flash Kodaguide. Pocket-sized four-page card with two dials; for still pictures by daylight and artificial light; reads direct for Kodak

Verichrome, Plus-X, Super-XX, Panatomic-X, Kodachrome Daylight and Type A, and Kodacolor. Also for use in making still pictures by flash exposures; uses guide numbers; lists guide numbers for all Kodak films, and reads directly for popular film and flashbulb combinations. Price, 25 cents.
MFR., Eastman Kodak Co.

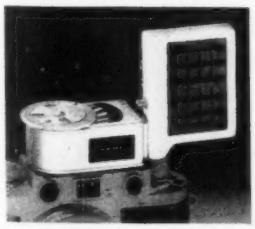
LEUDI 3

Extinction type for still and movie camera; for daylight and artificial



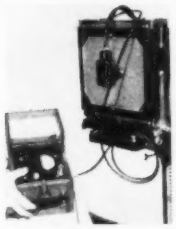
light; measures reflected and incident light; reads direct by full stops from f/1 to f/32; ASA Exposure Indexes from 8 to 500; exposure times from 10 minutes to 1/1000 sec. Price, including case and tax, $2.15.
DIST., Mimosa American Corp.

LEICA-METER



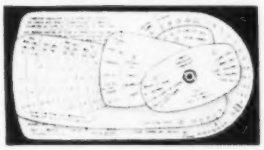
Photoelectric type for still cameras; for daylight and tungsten light; measures reflected light; reads direct from f/1.4 to f/22 in full stops; calibrated in ASA system; computes automatically; three measuring ranges, with exposure times from 120 seconds to 1/1000 sec.; clips on Leica cameras, or fittings having Leica accessory shoe; measuring element immune to mechanical shocks; photoelectric element detachable. Price, including carrying case, $24 including tax.
DIST., E. Leitz, Inc.

LIGHT METER 1501-A



Photoelectric type for still pictures; for flash exposures; measures incident light; phototube, covered by light attenuator, feeds vacuum-tube voltmeter which indicates total light emitted by flashtube; calibration in foot-candle seconds; reads direct; from f/2 to f/64; exposures progress by full stops; can also be used with 1501-P1 Probe unit to measure light at camera groundglass. Price, $176 including walnut case.
DIST., General Radio Co.

MARTIN COMPUTER



Circular slide-rule type; for still and motion pictures by daylight; two scales on each of four white Vinylite dials turning on one pivot; all normal shutter speeds, lens openings, ASA Exposure Index; brightness of subject, shade, incident, or reflected light; condition of sun for any time of day by months according to geographic latitude; for color and black-and-white film. Price, $1.50.
MFR., Paul S. Martin.

MINI REX

Photoelectric type; daylight and artificial light; measures reflected light; reads direct in full stops from f/1.4 to f/32; calibrated in ASA and Din; ASA calibrations from 3 to 200; exposure times from 120 seconds to 1/1000 sec.; leather pouch. Price, $9.95.
DIST., Spiratone.

MORGAN FLASHGUIDE

Pocket-sized chart for determination of flash speeds on given flashbulbs and shutters; shutter speed is placed opposite the type of reflector being used; distance of flashbulb to the subject determines the diaphragm opening. Price, 25 cents.
MFR., Morgan Camera Shop.

NORWOOD DIRECTOR

Photoelectric type for still and movie cameras; for daylight, artificial light, and flash exposures; measures incident light, and reflected light with accessory Photogrid; photoelectric cell mounted in swivel head; calibrated in ASA; reads by conversion on calculator dial; from f/1.4 to f/45 progressing by 1/3 stops; calibrated from emulsion speed of .1 to 1000; exposure times from 120 seconds to 1/1200 sec.; leatherette-covered steel case. Price, $32.95 including tax, including Photodisk for copying and balancing lights in studio; Photogrid for emergency exposure determination and brightness range control.
DIST., Director Products Co.

PHOTOELECTRIC PATROL

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected light; can be used with or without expansion band; calibrated with ASA Exposure Indexes from 3 to 200; reads direct by simplified superimposed computer dial; from f/1.4 to f/45 by 1/3 stops; exposure times from 8 sec. to 1/800 sec. midget design, curved to fit wrist. Price, DeLuxe model, $16.50; Aristocrat model, $24.
MFR., Warren Mechanisms.

PHOTO COMPUTER

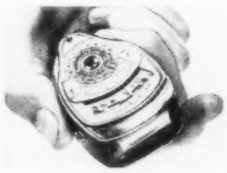
A pocket-sized aid to solve quickly exposure problems of still and movie pictures. The computer covers filter factors, film emulsion speeds, shutter openings, motor speeds and lens diaphragm openings; these are all variables dependent on one another. It is also provided with a lens calculator by which the depth of field for most standard lenses at various stops and focal distances may be found.
MFR., Bardwell & McAlister, Inc.

POLAROID G-E

Photoelectric type for still pictures; for daylight and artificial light; measures reflected light; midget meter with scale markings matched to Po-

laroid Land camera exposure numbers; 5 separate scales for different film speeds; direct reading for Polaroid camera; clips to camera for use. Price, $14.25; eveready case, $1.50.
DIST., Polaroid Corp.

PULLIN



Photoelectric type meter for still and motion pictures; for daylight and artificial light; calibrated from emulsion speed of 6 to 200; from f/1.4 to f/45, exposure times from 2 hours to 1/1000 sec.; exposures progress by full stops. Price, $14.95 including tax.
DIST., General Photographic Supply Co.

SAYMON-BROWN

Extinction type meter for still pictures or movies; by daylight or artificial light; tubular construction; calibrated in Weston system; reads direct; with apertures from f/1.5 to f/16 by full stops; shutter speeds from 1 second to 1/1000 sec.; fits camera shoe which is available as accessory for 25 cents. Price, including leather case, $2.05.
DIST., Burleigh Brooks Co.

SKAN

Standard Model Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; accessible zero adjustment; patented method of calibration; 2-element computer, on back of meter; has range from f/1.4 to f/32 progress by half stops; ASA Exposure Indexes from .4 to 800; exposure times from 30 seconds to 1/1000 sec. Price, including case, $14.95.

View-finder Model Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; twin scales, with same restricted light acceptance angle for both high and low light ranges; accessible zero adjustment; ASA Exposure Indexes from .3 to 800; 3-element computer on back of meter, has range from f/1 to f/45 progressing by 1/3 stops; exposure times from 120 seconds to 1/1200 sec.; has camera-type viewfinder. Price, including case, $22.95.
MFR., G-M Laboratories, Inc.

SIXTUS II

Photoelectric type for still cameras; for daylight and artificial light; measures incident light; calibrated in ASA and Din systems, for ASA emulsion speeds from 6 to 400; reads direct from f/1.4 to f/45 in full stops; exposure times from 4 minutes to 1/1000 sec.; selective viewing angle. Price, with leather case, $18.50, inc. tax.

SIXTOMAT I

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected and incident light; reads direct from f/1.4 to f/45 in full stops; calibrated in ASA system for emulsion speeds from 6 to 400; exposure times from 30 seconds to 1/1000 sec.; automatic calculation of correct f/stop for every shutter speed; reading retained until next use; sliding metal curtain encloses mechanism. Price, with chromium neckstrap, $28.50.

SIXTOMAT

Same features as Sixtomat I, except does not measure incident light. Price, with stainless steel neckstrap, $25.
DIST., Mitropa Corp.

S.E.I. EXPOSURE PHOTOMETER

Photoelectric and extinction type for still pictures, by daylight and artificial light; measures reflected light; cylindrical construction with eyepiece; all metal; uses one flashlight cell and photocell; calibrated in ASA Exposure Indexes; reads direct footlamberts; exposure times from 2 hours, 47 minutes to 1/500,000 sec.; can be used as a densitometer; has a relative density scale for the direct measurement of transmission and reflection densities. Price with case, $170.
DIST., The Zoomar Corp.

SWISS LUX 2

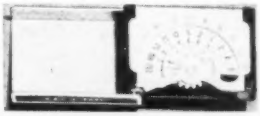
Photoelectric type for still and movie cameras; daylight and artificial light; measures reflected and incident light; reads direct from f/1.4 to f/32, in 1/2 stops; ASA calibration; exposure times from 64 seconds to 1/1000 sec.; movie speeds from 8 to 32 frames per second; attached leather case. Price, $27.
DIST., Heitz & Lightburn.

TOWER

Photoelectric type for still and movie pictures, by daylight and artificial light; measures reflected light; reads direct by third stops from f/1 to f/64; ASA Exposure Indexes from .8 to 800; exposure times from 16 seconds to 1/1000 sec.; light values from 1.4 to 2,000 foot-candles. Price $10.98.
DIST., Sears, Roebuck and Co.

WIRGIN

Extinction type for still and motion pictures; for daylight and artificial light; measures reflected light; metal construction; folds open to operating position; emulsion speeds from 2 to



100; from f/2 to f/32; exposure times from 8 seconds to 1/250 sec.; exposures progress by full stops. Price, $2.15 including tax and case.
DIST., Camera Specialty Co., Inc.

WESTINGHOUSE RAPID FLASH CALCULATOR

Pocket size exposure guide for flash photography; does not use guide numbers; gives direct reading for exposure; data covers all popular black-and-white and color films. Price, $.10.
MFR., Westinghouse Electric Manufacturing Co.

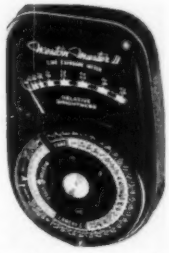
WESTON CADET

Photoelectric type for still and motion pictures; for daylight and artificial light; measures both incident and reflected light; calibrated in Weston system from 4 to 125 emulsion speed; reads by conversion; from f/2.8 to f/16; exposure times from 5 seconds to 1/800 sec.; exposures progress by 1/3 stops; can be used with Polaroid Land camera; equipped with zero corrector. Price, $18.28 including tax.

WESTON MASTER II UNIVERSAL 735

Photoelectric type for still and movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in 1/3 stops from f/1.5 to f/32; calibrated in Weston system from .3 to 800; exposure times from 100 seconds to 1/1200 sec.; very sensitive to low light and has a narrow acceptance angle for outdoor work; calculator has color control and black-and-white control features. Price, $27.63.

WESTON MASTER II CINE 736



Photoelectric type for movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in half stops from f/1 to f/22; calibrated in Weston system from .1 to 800; exposure times from 6 frames per sec. to 96 frames per sec. Price, $27.63. The Weston Invercone Adapter for measuring incident light is available as an accessory for Weston Master models, $2.40.
MFR., Weston Electric Instr. Corp.

EXPOSURE METERS For Printing and Enlarging

DAYTON ROGERS STRIP TEST EXPOSURE METER

Slide-rule type; all metal construction; determines correct exposure time for enlarged prints by taking five different tests from the same point of interest on the negative; handles test strips up to 3½x5; sets flat on easel board. Price, $3, including tax.
MFR., Dayton Rogers Mfg. Co.

KODAGUIDES

Density Kodaguide. Slide-rule type; pocket-sized card with film density step tablet; estimates gray-scale density on suitably prepared negatives; useful for making separation negatives and color prints. Price, $1.

Kodak Enlarging Dataguide. Slide-rule type; includes a swatch chart of Kodak photographic paper showing surfaces, weight, color and image tone; card has dial relating magnification, lens aperture, paper, and exposure time. Price, $.50.

Kodak Print Exposure Computer. Slide-rule type; card has dials relating magnification, density, lens aperture, and exposure time; determines exposures according to density readings; helpful in color printing with Kodak Dye Transfer Process. Price, $1.
MFR., Eastman Kodak Co.

MAGNEPHOT DENSICHRON

Kalmus-Striker Magnephot system for still pictures by daylight or artificial light; measures incident light; meter contained in metal case-housing, which also includes all dials and controls; sensitivity controls provide 4 decades by the range switch with 1 decade continuous and overall control of 10,000 to 1; cell unit connected to meter by flexible cable; maximum light sensitivity is 10 micro lumen; equipped with blue sensitive light probe; red sensitive probe available; furnished with six measuring apertures, cone, retaining ring, and opal glass disk; for use only on 115-volt, 60-cycle a-c. Price, complete, $225. For use as exposure meter, as printing exposure meter, and as retouching guide.
MFR., W. M. Welch Scientific Co.

SPOT-O-MATIC MODEL 6A

Electrical; light balancing photometer; automatic calibrations; optical density wedges; permanent plastics spot; operates on 110-125 volts, a-c, or d-c; gives exposure time, paper contrast, and tells whether negatives are over- or underdeveloped; for use with all enlargers and any type of projection paper. Price, $11.24, including tax.
MFR., Kinnard Co.

WESTON 877 PHOTOGRAPHIC ANALYZER

Electric; operates on 105-120 volts, a-c, or d-c; uses photoelectric cell; portable combination illumination meter and transmission densitometer; illuminated scale calibrated to read either illumination or density; supplied with a calculator, step wedges, gray scale, plotting paper, a multiplier disc for high light intensities, and an instruction book; determines exposure time for printing and making separation negatives; determines the gamma of development; the speed of papers and sensitized material in terms of the users equipment and technique. Price, $125.
MFR., Weston Electrical Inst. Corp.

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3. Mail your order, down payment, and short note telling us about yourself, occupation, age, your employer for last 2 years, & 2 references.

SAVE ON BRAND NEW 27 Pc. ARGUS C3 OUTFIT

Argus C3 Camera, Flashgun and Carrying Case, $60.50. Complete with 4 Optical Filters, Filter Holder, Sun Shade, 10 Flash Bulbs, 6 Rolls Anscochrome or Kodak reloads, 1 Roll Color Film. All brand new for only $84.50

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COMPLETE GRAPHIC OUTFITS

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Brand new 1951 models complete with F 4.7 Optar lens in flash synchro shutter; Graflite flashgun with 7" reflector, cord and encircling bracket; Kalart Range-finder; film pack adapter; 3 cut film holders.

4"x5" CROWN GRAPHIC with above accessories — $261.10. **$26.10** DN AS LITTLE AS **$15.99** MO

4"x5" SPEED GRAPHIC with above accessories — $299.50 **$29.50** DN AS LITTLE AS **$18.38** MO

35mm. VX EXAKTA

NEW 1952 EXAKTA! The most versatile camera in the world!

- PRE-SET DIAPHRAGM LENS—keeps the diaphragm at its pre-selected aperture
- INTERCHANGEABLE LENS AND VIEWFINDERS—Quickly switches from standard hooded finder to exclusive Penta Prism for sports shots
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- COUPLED FILM TRANSPORT AND COCKING
- CARTRIDGE-TO-CARTRIDGE FILM FEED

EXAKTA VX with F 2.8 Kern Tessar $300.00 **$26.50** DOWN AS LITTLE AS **$16.53** MONTH

EXAKTA VX with F 1.9 Zeiss Biotar $400.00 **$34.00** DOWN AS LITTLE AS **$21.04** MONTH

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Automatic Rolleiflex F 3.5 Tessar, with case, $285.00 complete	Automatic Rolleiflex—F 3.5 Xenar, with case, $265.00 complete	Rolleicord III F 3.5 Xenar, with case, complete $149.00
$28.00 DOWN AS LITTLE AS **$17.50** MO	**$26.00** DOWN AS LITTLE AS **$16.27** MO	**$14.50** DOWN AS LITTLE AS **$9.19** MO

SAVE ON BRAND NEW REFLEKTA II OUTFIT

Reflecta II with Coated F 3.5 Meritar lens in helical mount. Double exposure preventative. Flash synchronized. Complete with Case, B.C. Flashgun, Battery, Sun Shade, Filter Holder, 4 Filters, 3 Rolls B&W Film, 1 Roll Color Film, 10 Flash Bulbs. All brand new for only $89.50.

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2¼x2¼ PRIMAR-REFLEX II

Uses cut film as well as #120 roll film. 1 sec. to 1/1000th focal plane shutter, synchronized for flash and strobe, full field critical focus magnifier. Full line of accessories and interchangeable lenses.

With coated F 2.8 Meyer Trioplan $265.00

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2¼x2¼ MASTER REFLEX

Precision single lens reflex, 1 sec. to 1/1000th focal plane shutter, synchronized for flash and strobe, self timer. A terrific value. Full line of accessories and interchangeable lenses. With coated F 3.5 Meyer Primotar $185.00

$18.50 DOWN AS LITTLE AS **$11.37** MONTH

SAVE ON NEW CENTURY GRAPHIC OUTFIT

Century Graphic, F 4.5 in. Flash Synchro Shutter, $109.50. Complete with Synchro Flash Gun, 3 cut Film Holders, 25 Sheets Cut Film, 4 Optical Filters, Sunshade, Filter Holder and 10 Flash Bulbs. Complete Outfit, $139.50.

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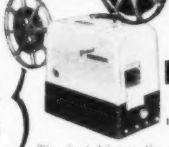
B & H FILMOSOUND 202

16 MM MAGNETIC RECORDING SOUND PROJECTOR



The first 16 mm Sound Projector with a built-in Magnetic Recorder. Thread, record, playback, it's that easy to make and enjoy your own sound movies. Projects magnetic or regular sound film. Sound and silent speeds, turret record and erase head, mike and phono outlets. Complete with Microphone, built-in Speaker and practice film $699.00

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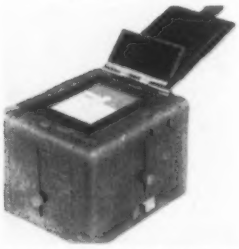
CONTACT PRINTERS

AIREQUIPT JUNIOR

Metal construction; takes negative sizes from 35 mm to 4x5; diffusion glass; automatic switch; felt covered hinged platen; automatic 3/16" margins; direct reading calibrations for margins to 5/8"; top and left margins set simultaneously; steel sliding masks. Price, $10.77.

AIREQUIPT PHOTOCRAT



All-metal construction; takes negative sizes from 35 mm to 4x5; uses 1 tubular white light; 25 watts on 120 recommended line voltage; diffusion by special processed glass; automatic switch for use as viewing or retouching box; built-in and concealed sliding masks for automatic 3/16 margin; 35 mm guides for strip printing; built-in safe light; felt-cushioned pressure plate. Price, $15.95.
MFR., Airequipt Mfg. Co., Inc.

ALCO

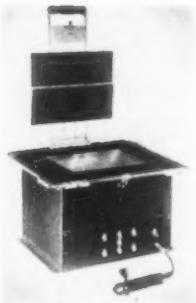
Wood construction; takes sizes from 2¼x3¼ to 8x10; split platen; upper half of front hinged to facilitate dodging; ground glass diffusion. Price, $50.
DIST., Alco Photo Supply Corp.

ARKAY ZEPHYR PRINTER

Metal construction; takes negative sizes up to 4x5; film guides for 35 mm printing; lock mechanism for time exposure; molded safelight lens diffuses light over large working area; slope-design body to prevent tilting under pressure. Price, $13.37 including tax.
MFR., Arkay Corp.

B&J PROFESSIONAL

Metal construction; takes sizes up to 3x10; independent electrical switches.

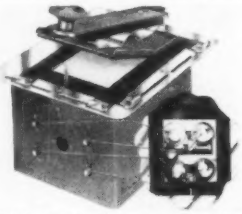


Price, with 5 lights, $82.50; with 8 lights, $99.50.
DIST., Burke & James, Inc.

BRUMBERGER 1057

Metal construction; flash opal glass diffusion; uses 1 white bulb; 110 recommended line voltage; automatic switch; adjustable border masks; double-hinged rubber cushioned pressure plate; easy access to bulbs; supplied with 7½-watt ruby bulb. Price, $22.
MFR., Brumberger Co., Inc.

COMPCO 360 ARGON



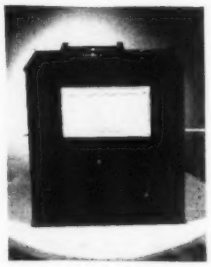
Metal construction; negative sizes from 35 mm to 4x6; equipped with 4 Argon lamps, each on individual switch for control of negative densities; automatic switch; adjustable masking bands; hinged platen; supplied with ruby bulb. Price, $14.95.

COMPCO MODEL 280

Metal construction; takes negative sizes from 35 mm to 4x6; uses one 15-watt inside-frosted white bulb; opal-type glass diffusion; adjustable border masks; double-hinged rubber cushioned pressure plate; built-in safelight window; amber indicator window in front of printer tells when white light is on; wide phosphor bronze pressure spring. Price $7.95.
MFR., Compco Corp.

CURTIS TYPE M COLOR PRINTER

Combination wood and metal construction; takes negative sizes from 35 mm to 4x5"; uses 1 white bulb; 75-watt G-E enlarging bulb recommended; groundglass diffusion; designed for making balanced color separation negatives from color film; Anti-Newton Mounting Plate; gray scale; instruction booklet; filters for



Ektachrome, Kodachrome, Anscco Color film. Price, including white bulb, $30.
MFR., Curtis Laboratories, Inc.

EASTMAN PRINTER NO. 8—MODEL 2

Wood construction; uses 4 white 25- or 40-watt bulbs; groundglass diffusion; positive action switch turns on the lights when the platen makes contact; adjustable border masks; double-hinged rubber-cushioned pressure plate; door in the front of the printer gives access to the lamps and to a diffusing groundglass on which vignettes may be placed. Price, with ruby bulb, $70.
MFR., Eastman Kodak Co.

MORSE M-20 PRINTER

Metal construction; uses 39 Argon lamps and 4 white bulbs; 100 watts; 110 recommended line voltage; each lamp is individually controlled and group switches placed for dodging; pneumatic pressure plate; simplifies vignetting; fast printing with cool burning, highly actinic Argon glow lamps; inflated rubber platen gives 600-lb. pressure; groundglass diffuser; plate glass printing surface; will handle negatives sizes up to 8x10. Price, with white lights and ruby bulbs, $225.
MFR., The Morse Instrument Co.

PHOTAX

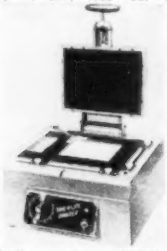
Metal construction; takes sizes from 35-mm to 2¼x3¼; uses 1 white bulb; 25-watts; recommended line voltage, 110; flashed opal glass diffusion; rubber cushioned pressure plate; has device which may be used as safelight for paper when not used as printer. Price, $6.98.
DIST., General Photographic Supply Co.

SUPERB METAL PRINTER

Metal construction; uses 2 clear white bulbs; 25 or 40-watt; 110 recommended line voltage; groundglass diffusion; automatic switch; built-in adjustable border masks; double-hinged felt cushioned pressure plate. Price, $15.15 including tax.
MFR., Willoughby's, Inc.

TIME-O-LITE M-35 PRINTER

Metal construction; takes negative sizes up to 5x7; uses four 40-watt



white bulbs; recommended line voltage 105 to 125; flash opal glass diffusion; built-in adjustable border masks; rubber-cushioned pressure plate; built-in timer with switch on platen hasp. Price, with ruby bulb, $59.50 plus tax.

TIME-O-LITE M-80 PRINTER

Same as above, except takes negative sizes up to 8x10; built-in intensity control and diffusion control; control of Kelvin temperature of lamps. Price, $124.50, plus tax.
MFR., Industrial Timer Corp.

TOWER

Metal construction; takes sizes up to 4x5; uses 15-watt white bulb and 7½-watt red bulb; pressure plate rubber cushioned; wired with momentary contact switch. Price, $3.89.
DIST., Sears, Roebuck and Co.

TRU COPY PHOTE

Wood construction; takes various negative sizes; recommended line voltage 110; pressure plate rubber cushioned; spring pressure cover; unbreakable glass top; removable filter; with or without timer. Price on request.
MFR., General Photo Products Co., Inc.

U. S. COLD LIGHT PRINTER

Metal construction; takes negative sizes from 35 mm to 5x7; uses 9 ultraviolet lamps; 22½ watts; 110 a-c recommended line voltage; flashed opal glass diffusion; adjustable border masks; double-hinged rubber-cushioned pressure plate; easel-type masks; automatic margin controls lining up of paper and negative; negative clamp; designed for table or sunk-bench use; mounting brackets provided. Price, $96 plus tax.
MFR., U. S. Photographic Equipment Corp.

VARICON

Metal construction; takes sizes from 35-mm to 5x7; uses 4 25-watt white bulbs and one ruby lamp; floating rubber-cushioned platen; light trapped ventilation; automatic switch controls white light; ground glass diffusion; specially designed for Vari-

gam contrast paper as well as other papers. Price, inc. tax, $45.
DIST., Campus Camera Shop.

WILLO CHAMPION PRINTER

Metal construction; takes negative sizes from 35 mm to 5x7; uses two 25-watt white bulbs; 110 a-c, d-c recommended line voltage; groundglass diffusion; built-in adjustable border masks; double-hinged felt cushioned pressure plate; hinged masking frame has pressure bar; paper guide placement of paper; dual spool take-up for strip printing; push-button release; transparent rulers for reading; door in front with sliding groundglass for easy reading; adjustable from zero opening to 5x7. Price on request.
DIST., Willoughby's.

ALL INQUIRIES on products listed in the Directory should be addressed to the manufacturers and distributors concerned. A list of their addresses starts on page 218.

PREPARED DEVELOPERS

ACE

Ace-72 M.Q. Tubes. For paper and film; med. grain; normal emulsion speed; temp. tolerance 75°; normal shadow detail. Price, $.06 per tube to make 24 oz.
MFR., Ace Photo Laboratories.

ALBURGER

Devel-1. For film; concentrate solution; physical-chemical development; very fine grain; rapid dev.; normal emulsion speed; extreme shadow detail, soft working. Price, qt. bottle, $.90; gal. bottle, $2.50.

Devel-2. For film; similar features as above; normal contrast, dev. time 6 min.; replenish with fresh developer; concentrate solution. Price same as Devel-1.

Devel-3. For film; concentrate solution; combination physical-chemical dev.; fine grain; increased emulsion speed; high contrast, extreme shadow detail. Price, same as above.
MFR., Alburger Research Prod. Co.

ANSCO

Ansco 17. For film; chemical dev.; fine grain; normal emulsion speed; soft-working; gradual dev.; dry. Prices: ½ qt., $.30; ½ gal., $.50; 1 gal., $.75.

Ansco 17A Replenisher. For Ansco 17 developer. Prices: 1 qt., $.35; 1 gal., $.80.

Ansco Permadol. For film; chemical dev.; dry; medium grain; moderately rapid dev.; normal emulsion speed. Prices: 1 gal., $.50; 3½ gal., $1.20; 10 gal., $3.30.

Ansco Ardol. For paper; chemical dev.; dry; warm tones. Available in 1 qt., ½ gal., and 1 gal. packages. Prices: 1 qt., $.28; ½ gal., $.40; 1 gal., $.55.

Ansco Vividol packets. For film and paper; dry; chemical dev. Price 3 packets, $.35.

Ansco Vividol. For paper; dry; chemical development; cold tones. Prices: 1 qt., $.40; ½ gal., $.50; 1 gal., $.75; 5 gal., $3.25.

Ansco Color Film Developing Outfit. For Ansco Color film; contains all necessary chemicals to process Ansco Color film; includes 6 chemicals. Prices, 1 qt., $3.05; ½ gal., $3.90; 1 gal., $6.

Color Printon Developing Outfit. Contains the 6 necessary chemicals to process Ansco Printon film to produce color prints. Prices, 1 qt., $3; ½ gal., $4.20; gal., $7.35.
MFR., Ansco.

ACTIVOL

Concentrate; for film; ready to mix; rapid development time; fine grain; increased emulsion speed with overdevelopment; soft-working; good shadow detail; good keeping qualities; can be diluted 40-1 for tank development. Price, 3½ oz. $.75 per bottle.
DIST., General Photographic Supply Co.

DECO

Deco ABC. For film; single solution type; sensitizer-activator dev.; medium grain; rapid development time; film speed increasing developer; increased emulsion speed; good shadow detail; long keeping quality. Price, 3 qt., $3.
MFR., Development Eng. Co.

DR. CHARLES

Dr. Charles G-9. For film; in solution; combination physical-chemical dev.; fine grain; gradual dev. time 11 min.; normal emulsion speed; produces negative with both silver and stain image. Price, 1 qt., $1.65.
MFR., Ace Photo Laboratories.

DUFAYCOLOR

Processing kit for Dufaycolor film; contains chemicals for ½ gal., divided into 2 1-qt. quantities, and instructions. Price, $3.75.
DIST., Continental Photographic Labs.; General Photographic Supply Co.

DU PONT

53-D All Purpose Developer. For films and paper; dry; chemical dev.; medium grain; rapid dev.; increased emulsion speed; contrasty; produces brown image on du Pont Warmtone paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.

54-D Cold Tone. For paper; dry; especially cold tones; contrasty; for blue-black image color on "Apex" contact paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.

55-D Standard Paper Developer. For paper; dry, ready to mix; warm tones; normal gradation; recommended for use with "Velour Black" and "Varigam" papers. Available in units same as above; also in tubes to make 16 oz. stock solution.

16-D Film Developer. For film; dry. Available in units to make 1 gal., 3½ gal., 10 gal.

16-DR Replenisher. For use with 16-D Film Developer; dry. Available in units to make 1 gal., 5 gal.
MFR., E. I. DuPont de Nemours & Co.

EASTMAN

D-76. For film; dry; combination physical-chemical dev.; medium grain; dev. time 17 min.; full emulsion speed; soft-working; good shadow detail. Prices: 1 qt., $.36; ½ gal., $.51; 1 gal., $.78; 10 gal., $4.20. D-76R replenisher available.

DK-50. For film; dry; combination physical-chemical dev.; medium grain; rapid dev.; normal emulsion speed; soft-working; for portrait, commercial, color separation work. Prices: 1 gal., $.46; 3½ gal., $1.14. DK-50R replenisher available.

DK-60A. For film; dry; combination dev.; medium grain; rapid dev.; normal emulsion speed; normal contrast; recommended for fast sheet film. Prices: 1 gal., $.57; 3½ gal., $1.36.

Dektol. For paper; dry; combination dev.; cold tones; normal gradation; high print capacity. Sizes make stock solutions. Prices: 1 qt., $.42; ½ gal., $.51; 1 gal., $.78; 5 gal., $3.42. Packets available in cartons of 3, with each sufficient to make 16 oz. of working solution, $.35.

Microdol. For film; dry; combination dev.; replenisher available; fine grain; normal dev. time 16 min.; decreased emulsion speed 25%; soft-working; good shadow detail; recommended where considerable enlargements required. Prices: 1 qt., $.51; 1 gal., $1.05; 5 gal., $3.36. Microdol replenisher available. Packets available in cartons of 2, with each sufficient to make 8 oz. of solution, $.25. Liquid Microdol Developer, 1 qt., $1.

Selectol. For paper; dry; combination dev.; warm tones; normal gradation; sizes make stock solutions. Prices: ½ gal., $.42; 1 gal., $.57; 5 gal., $2.04. Selectol soft, 1 gal., $.57; gives warm tone for slight control of contrast.

Versatol. For film and paper; in solution; combination chemical-physical dev.; cold tones; normal gradation with paper; medium grain, normal emulsion speed and contrast with film; diluted 1-3 for paper or film developer; 1-7 for tank dev. of film. Prices: 8 oz., $.35; 1 qt., $1; 1 gal., $3.15.

Tri-Chem Pack. For film and paper; includes Kodak Universal M.Q. tube, Universal stop bath with indicator, and Universal fixer; makes 8 oz. for tray developing. Price, $.20.

Kodak Universal M.Q. For film and paper; makes 8 oz. for tray development of films and paper, and 22 oz. for tank development of film; chemicals come in two separate packs. Price, for unit, $.05; carton containing 12 packages (6 units), $.30.

Kodak Ektachrome Processing Kit. Contains all the required chemicals to process Kodak Ektachrome film. Includes 1st developer, hardener, color developer, bleach, and clearing and fixing bath. Prices: 1 pt., $1.57; ½ gal., $4.90; 1 gal., $6.30; 3½ gal., $15.75.

Kodak Ektacolor Processing Kit. Contains all the chemicals necessary to process Kodak Ektacolor Film. Prices: 1 gal., $5.25; 3½ gal., $13.12.
MFR., Eastman Kodak Co.

EDWAL

Edwal 1-2-3. For film and paper; dry; chemical dev.; rapid dev., normal emulsion speed, contrasty, with good shadow detail with film; cold tones with clean whites for paper. Package to make 1 to 3 qts., $.15.

Edwal Super 12. For film; in solution ready to use; combination dev.; fine grain; med. speed; normal contrast; shadow detail; increased emulsion speed; Price, 1 qt. bottle, $1.25.

Edwal Super 20. For film; in single solution ready to use; combination dev.; very fine grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; Price, 1 qt. bottle, $1.25.

Edwal Velvet. Paper developer; concentrate; chemical dev.; rapid; cold black tones; anti-fog principle; 16-oz. bottle to make ½ gal. of developer; price, $.95.

Edwal One-Eleven. For film and paper; in solution; chemical dev.; rapid dev.; normal emulsion speed; contrasty; good shadow detail with film; gives neutral black tones with fine gradation; 2 min. dev. time with bromide, 1½ min. with chloride papers. Price, 1 qt. bottle, makes up to 8 qts., $1.35.

Edwal Minicol. For film; in solution; chemical dev.; very fine grain; gradual dev.; normal emulsion speed; very soft-working; recommended for flash photography and summer sunlight. Price, 1 qt. bottle, $1.25.

Edwal Thermofine. For film; dry and in solution; chem. dev.; fine grain; rapid dev.; variable contrast; replenisher available. For use at temps. between 65° and 90° f. Prices: powder form, 1 qt. $.55; 1 gal., $1.25; replenisher, $.55; liquid, 1 qt., $.95.
MFR., Edwal Laboratories.

FR

FR Super X-33. For film; combination chemical-physical dev.; fine grain; soft-working; fine shadow detail; in solution. Price, 1 qt., $.99; 5 qt., $3.80.

FR Super X-33 Replenisher. For Super X-33 developer; used to maintain constant developing time by adding one oz. to developer for each roll developed. Price, 1 qt., $.99; 5 qt., $3.80.

FR Negative Developer. For film; in solution; med. grain; normal emulsion speed; excellent shadow detail; good keeping qualities; for negatives to be used in making contact prints and 2X enlargements. Available in 32 oz. concentrated solution to make 2 gal. of working solution. Price, 8 oz., $.39; 1 qt., $.99; 5 qt., $3.80.

FR Paper Developer. For paper; chemical dev.; concentrated for dilution to make 1 gal. of solution. Price, 8 oz., $.39; 1 qt., $.99; 5 qt., $3.80.
MFR., The FR Corp.

GRAPHIC ECONOMY

LT-17. For film and paper; dry; ready to mix; fine grain, rapid dev., contrasty, with film; warm tones with

paper; non-oxidizing and non-deteriorating. Prices: 1 qt. pkg., $.75; 1 gal., $1.25; 5 gal., $5.50.

LT-18. For film and paper; similar to LT-17 except is very soft-working. Prices and quantities same as above.

LT-30. For film; dry; fine grain; normal emulsion speed; soft-working; good shadow detail; wide latitude. Prices and quantities same as above.
MFR., Graphic Economy Developer Co.

HARVEY

Panthermic 777. For film; chemical dev.; very fine grain; rapid dev. time; temperature tolerance 60 to 90 F; normal emulsion speed; shadow detail; good keeping qualities; replenisher system offers continuous quality with no change in dev. time;
MFR., Harvey Photochemicals, Inc.

MALLINCKRODT

Contratone. For film; dry, ready to mix; chemical dev.; coarse grain; rapid dev.; normal emulsion speed; contrasty; good shadow detail; use without dilution. Prices, 1 gal. pkg., $.62; 5 gal. pkg., $2.70.

Pictone. For film and paper; dry; coarse grain; rapid dev.; normal emulsion speed; good shadow detail, for film; cold tones; excellent gradation for paper; dilute 1-2 for paper and 1-1 for film. Price, ½ gal. pkg., $.45; 1 gal. pkg., $.68; 5 gal. pkg., $2.85.

Softone. For film; dry; medium grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; use without dilution for pan and ortho films. Prices, ½ gal. pkg., $.40; 1 gal. pkg., $.68.

Ultratone. For film; dry; chemical dev.; fine grain; gradual dev.; normal emulsion speed; soft-working; fine shadow detail; use without dilution; recommended at 77°F with either pan or ortho film. Prices, ½ gal., $.60; 1 gal., $1.
MFR. Mallinckrodt Chem. Works.

MAY & BAKER, LTD.

Promicrol. For film; dry; extra fine grain; gradual development time; increased emulsion speed; good shadow detail; good keeping qualities. Range of subjects on dull days or under poor lighting conditions considerably increased. Price, 20 oz., $1.
DIST., Eagle Photo Supply Co.

NATIONAL CHEMICAL

N-44. For film; single solution; chemical dev.; fine grain; gradual dev.; normal emulsion speed; good shadow detail; good keeping qualities; replenisher available. Prices: 1 qt. bottle, $1.20; ½ gal. bottle, $1.70; 1 gal. bottle, $2.50.

Naccanol. For film; single solution; chemical dev.; fine grain; gradual dev.; excellent shadow detail and keeping qualities; extreme long life; replenishment made with developer. Prices: 1 qt. bottle, $.75; ½ gal. bottle, $1.30; 1 gal. bottle, $2.10.

Speedtone. For paper; bromide and chlorobromide; single solution; warm tones; very fast; good highlights. Prices: 1 pt. bottle, $1.15; 1 qt. bottle, $1.60; ½ gal. bottle, $3.10; 1 gal. bottle, $6.
MFR., National Chemical Co.

ROBBINS

Ethol 90. For film and paper; dry; chemical dev.; fine grain; extremely rapid; 90 sec. at normal temp.; normal contrast; full shadow detail; gradual dev. with dilution; good keeping qualities; for all types of film; warm tones with paper; full gradation with lower contrast. Prices, 1 gal. tin, $1.50; 5 gal. tin, $6. Additive available.
MFR., Robbins Ethol Corp.

SUPERIOR

Cine Chems. For 8 and 16-mm movie film; medium grain; rapid dev.; dry; ready to mix; multiple solution type developer; chemical dev.; for reversal films. Prices, ½ gal., $1.55; 1 gal., $2.55.
MFR., Superior Bulk Film Co.

SUPER-TOMIC

Developer No. 1. For film; fine grain; single solution; rapid dev.; good shadow detail; good keeping qualities; replenishment with dev.; concentrate solution. Price, 4-oz. bottle to make 1 qt., $2; 1 pt. bottle to make 1 gal., $6.
MFR., Super-Tomic Products Co.

URELL

Formula 44. For film; in solution; combination chemical-physical dev.; fine grain; normal emulsion speed; soft-working; high shadow detail; temp. tolerance to 85 F. Prices on request.

Formula 86. For paper; in solution; cold tones; gives deep blacks with extreme latitude of exposure. Prices on request.

Formula 50. For film; in solution; combination dev.; medium grain; gradual dev.; normal emulsion speed; soft-working, for commercial work; high shadow detail; no replenisher. Packed in 1 qt., plastic lined cans, to make 1 gal. Price on request.

Formula 72. For film and paper; in solution; combination dev.; medium grain; normal emulsion speed; high contrast; cold tones with paper; normal gradation; no replenisher. Packed in 1 qt., plastic lined cans, to make 1 gal. Prices on request.
MFR., Urell, Inc.

VON-L

Von-L Paper Developer. For paper; concentrate solution; variable contrast; full gradation; very low fog level; clean whites; recommended for bromide and chlorobromide papers only. Prices, 16 oz. bottle to make 3 gal., $2.25; 1 gal. to make 20-30 gal., $16.50.

Von-L S-35 Concentrate. For film; concentrate solution; combination chemical-physical dev.; fine grain; gradual dev.; variable contrast; fine shadow detail. Prices, 2 oz. bottle to make 1 qt., $3; 4 oz., $5.50; 10 oz. to make 1 gal., $8.75.

Von-L Gold XXEF Concentrate. For film; concentrate solution; high contrast; rapid dev. time; especially for negatives exposed by electronic flash. Price, 10 oz. bottle to make 1 gal., $8.75.

Von-L Gold XX Concentrate Industrial. For film; concentrate solution; combination dev.; fine grain; gradual dev.; for extreme contrast; good shadow detail; long working life. Price, 12-oz. bottle to make 1 gal. (1.5 gamma), $8.75.

Von-L Gold XX Concentrate Press. For film; single solution; combination dev.; fine grain; rapid dev.; normal contrast; good shadow detail; clear highlights; full-scale gradation; concentrate solution. Price, 10-oz. bottle to make 1 gal. (1. to 1.2 gamma), $8.75.

Von-L Gold XX Concentrate Commercial. For film; single solution; combination dev.; fine grain, gradual dev.; contrasty; good shadow detail; clean highlights; concentrate solution. Price, 10-oz. bottle to make 1 gal. (1.25 gamma), $8.75.

Von-L Gold XX Amateur Concentrate. For film; single solution; combination dev.; gradual dev.; fine grain; normal contrast; good shadow detail; full-scale gradation; good highlights; long working life; concentrate solution. Prices: 2-oz. bottle to make 1 qt. (.74 to 1. gamma), $2.50; 4-oz. bottle to make 2 qts., $4.50; 10-oz. bottle to make 1 gal., $8.75.
MFR., Mon-Blanc Chemical Co.

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PHOTOGRAPHIC LENSES

All lenses listed have iris diaphragm unless otherwise specified. Accessory lenses for specific cameras will be found under camera listings.

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
ASTRO Dist.—Sterling Howard					
ASTRO GAUSS-TACHAR	25 mm	f/2	f/22	For Eyemo, Mitchell, Arriflex and similar mounts.	
	32 mm	f/2	f/22	Same as above.	
	40 mm	f/2	f/22	Same as above.	
	50 mm	f/2	f/22	Same as above.	Upon request.
	75 mm	f/2	f/22	Same as above.	
	100 mm	f/2	f/22	Same as above.	
ASTRO FERNBILDLINSE	300 mm	f/5	f/22	For all Kine-Exakta models.	$129.50
	300 mm	f/5	f/22	For Contaxes.	142.00
ASTRO-BERLIN	400 mm	f/5	f/22	Telephoto lens for Kine Exakta and 35-mm cameras with Leica and Contax mounts; coated, built-in sunshade; uses reflex focusing Identoscope for Leica and Kardon, price $289.50, for Kine Exakta.	189.50
BAUSCH & LOMB					
PROFESSIONAL ENLARGING LENSES	4 3/8"	f/4.5	f/32	Barrel mount; coated; covers 2 1/2x3 1/2 film; with iris diaphragm.	69.13 Inc. F.E.T.
	7 1/2"	f/4.5	f/32	Same as above; covers 5x7 film.	103.00
	8 1/4"	f/4.5	f/32	Same as above; covers 5x8 film.	115.00
	12"	f/4.5	f/32	Same as above; covers 8x10 film.	250.00
PROFESSIONAL ENLARGING LENSES IC	7 1/2"	f/4.5	f/32	Still camera; enlarging; in Betax Shutter without release; 4 elements. Coated. Covers 5x7 film.	108.00
	12"	f/4.5	f/45	Same as above; covers 8x10 film.	262.00
PROFESSIONAL ENLARGING LENS IIb		f/6.3	f/45	Barrel mount; coated; covers 8x10.	149.00
EXTREME WIDE ANGLE PROTAR V	7 1/4"	f/18	f/45	Still camera; barrel mount; coated; covers 8x10.	110.00
	7 1/4"	f/18	f/45	Same as above; covers 8x10 film.	125.00
ANIMAR (for 8 mm cameras)	12.7 mm	f/2.8		For 8-mm movie cameras, fixed focus.	25.20 Inc. F.E.T.
	7.5 mm	f/2.5		Same as above.	56.00 Inc. F.E.T.
	14 mm	f/1.9		Same as above, focusing mount.	72.80 Inc. F.E.T.
	15 mm	f/1.5		Same as above.	128.80 Inc. F.E.T.
ANIMAR TELEPHOTO	25 mm	f/2.7		Same as above.	58.25 Inc. F.E.T.
	37.5 mm	f/3.5		Same as above.	Upon request.
ANIMAR (for 16 mm cameras)	25 mm	f/2.7		For 16-mm movie cameras, fixed focus.	31.90 Inc. F.E.T.
	26 mm	f/1.9		Same as above, "C" focusing mount.	84.00 Inc. F.E.T.
	25 mm	f/1.5		Same as above.	179.20 Inc. F.E.T.
ANIMAR TELEPHOTO	50 mm	f/3.5		Same as above.	Upon request.
	75 mm	f/3.5		Same as above.	80.00 Inc. F. E. T.
	100 mm	f/3.5		Same as above.	Upon request.
BALTAR (for 16-mm cameras)	15 mm	f/2.3		Barrel mount; coated	173.60 Inc. F.E.T.
	17.5 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	20 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	25 mm	f/2.7		Same as above.	173.60 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	158.00
BALTAR (for 35-mm cameras)	25 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	30 mm	f/2.3		Same as above.	173.60 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	158.00
	40 mm	f/2.3		Same as above.	160.00
	50 mm	f/2.3		Same as above.	164.00
	75 mm	f/2.3		Same as above.	185.00
	100 mm	f/2.3		Same as above.	225.00
	152 mm	f/2.7		Same as above.	255.00
BELL & HOWELL					
B. & H.	6.5 mm	f/1.9	f/22	Wide angle lens for Bell & Howell 8-mm movie cameras. Coated; 8 element inverted telephoto; highly corrected for color, astigmatism, spherical aberration, coma and distortion; fixed focus; click stops.	79.95 Inc. F.E.T.
COMAT	0.5"	f/2.5	f/22	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion, fixed focus.	56.95 Inc. F.E.T.
SUPER COMAT	0.5"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	86.95 Inc. F.E.T.
	1"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, click stops; rotating back thread to adjust index line.	86.95 Inc. F.E.T.
	1"	T 2.1	f/22	Same as above.	86.95 Inc. F.E.T.
TELATE	1.5"	f/3.5	f/22	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	53.00 Inc. F.E.T.
	2"	f/3.5	f/32	For Bell & Howell 8-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	64.95 Inc. F.E.T.
COMAT	1"	f/2.5	f/32	For 16-mm movie cameras. Coated; triplet anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; fixed focus; click stops; rotating back thread to adjust index line.	62.95 Inc. F.E.T.
SUPER COMAT	0.7"	f/2.5	f/22	Wide angle lens for 16-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	86.95 Inc. F.E.T.
	1"	f/1.9	f/22	For 16-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, click stops; rotating back thread to adjust index line.	86.95 Inc. F.E.T.
TELATE	2"	f/3.5	f/22	For 16-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	Upon request
	3"	f/4	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	Upon request
	4"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	Upon request
	6"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	Upon request
TAYLOR-HOBSON Dist.—Bell & HOWELL					
IVOTAL	0.5"	f/1.4	f/16	For Bell & Howell 8-mm movie cameras. Coated; 5 element inverted telephoto; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount, depth of field scale; click stop iris.	141.95 Inc. F.E.T.
SUPER COMAT	1.5"	f/1.9	f/22	For Bell & Howell 8-mm movie cameras. Coated; 4 element anastigmat; highly corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount; click stops.	Upon request
IVOTAL	2"	f/1.4	f/22	For Bell & Howell 8-mm movie cameras. Coated; Cooke 4 element anastigmat; extremely corrected for color, astigmatism, spherical aberration, coma and distortion; click stops, depth of field scale; focusing mount.	Upon request

(Continued)

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
IVOTAL	1"	f/1.4	f/22	For 16-mm movie cameras. Coated; 6 element anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	$175.95 Inc. F.E.T.
	2"	f/1.4	f/22	For 16-mm movie cameras. Coated; Cooke 4 element anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	Upon request
KINIC	2"	f/3.5	f/32	For 16-mm movie cameras. Coated; triplet anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	Upon request
KINIC	2"	f/3.5	f/32	For Bell & Howell 8-mm movie cameras. Coated; triple anastigmat; corrected for color, astigmatism, spherical aberration, coma and distortion, focusing mount.	Upon request
TELEKINIC	6"	f/4.5	f/32	For 16-mm movie cameras. Coated; 4 element telephoto; corrected for color, astigmatism, spherical aberration, coma and distortion; focusing mount.	Upon request
PANCHROTAL	2.8"	T 2.5	f/32	For 16-mm movie cameras. Coated; Cooke 6 element telephoto anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	Upon request
	4"	T 2.5	f/32	For 16-mm movie cameras. Coated; Cooke 6 element telephoto anastigmat; extremely highly corrected for color, astigmatism, spherical aberration, coma and distortion; click stops; depth of field scale; rotating back thread to adjust index line; focusing mount.	Upon request
TAYLOR-HOBSON-COOKE Dist.—Burke & James, Inc.					
TAYLOR-HOBSON-COOKE	2" to 48"	f/.8 to f/16		Complete line of still camera lenses in focal lengths from 2" to 48".	Upon request
CENTURY Dist.—Century Photo Supply					
ATHENAR	6"	f/2.8	f/22	For 16-mm motion picture cameras; 6 power, color corrected; focusing "C" mount. Price coated $69.50. Uncoated.	58.25
SUPER ATHENAR	9"	f/4.5	f/22	Same as above except 9 power. Price coated $59.50. Uncoated.	52.75
DALLMEYER Dist.—Alco Photo Supply					
ADON TELEPHOTO	6"	f/4.5		Fixed separation; magnification approx. 2x linear; camera extension necessary for objects at infinity is approx. half the equivalent focal length of lens; black enamel mount finish.	Upon request
	9"	f/4.5		Same as above.	Upon request
	10"	f/4.5		Same as above.	
	12"	f/4.5		Same as above.	
	14"	f/4.5		Same as above.	
DALLON TELEPHOTO	4"	f/5.6		Same as above.	Upon request
	6"	f/5.6		Same as above.	
	9"	f/5.6		Same as above.	
	11"	f/5.6		Same as above.	
	14"	f/5.6		Same as above.	
CINE LENSES (for 8-mm cameras)	13 mm	f/1.9		Available in different mounts to fit all 8-mm cameras with interchangeable lenses; coated. Prices are higher for B&H Companion and Filmo Sportster to cover needed Wedge Mount.	73.13
	15 mm	f/1.5		Same as above.	99.00
	15 mm	f/2.9		Same as above.	73.13
	20 mm	f/1.5		Same as above.	99.00
	20 mm	f/2.9		Same as above.	73.13
	25 mm	f/1.5		Same as above.	99.00
	25 mm	f/1.9		Same as above.	64.13
	25 mm	f/2.9		Same as above.	67.50
	1½"	f/1.9		Same as above.	Upon request
	1½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
CINE LENSES (for 16-mm cameras)	15 mm	f/1.5		Designed for B&H, Keystone, Revere, Victor, Bolex, Pathe, and Cinklox 16-mm cameras.	99.00
	20 mm	f/1.5		Same as above.	99.00
	1"	f/1.5		Same as above.	99.00
	1½"	f/1.9		Same as above.	Upon Request
	1½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	Upon Request
	3"	f/1.5		Same as above.	
	3"	f/1.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
	4"	f/3.5		Same as above.	
	4"	f/4.5		Same as above.	
	6"	f/3.5		Same as above.	
	6"	f/4.5		Same as above.	
DE JUR-AMSCO					
DeJUR WOLLENSAK	13 mm	f/1.9	f/22	For 8-mm movie cameras; coated; in chrome mount; fixed focus.	25.90 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above; in focusing mount.	45.70 Inc. F.E.T.
	25 mm	f/2.5	f/16	Same as above.	43.15 Inc. F.E.T.
	38 mm	f/3.5	f/22	Same as above.	Upon request
	38 mm	f/3.5	f/22	Same as above; fixed focus.	
DeJUR ANASTIGMAT	6.5 mm	f/1.9	f/22	For 8-mm cameras; coated; in chrome mount; fixed focus.	70.00 Inc. F.E.T.
	9 mm	f/2.5	f/22	Same as above.	46.20 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above.	27.72 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above, in focusing mount.	48.98 Inc. F.E.T.
	25 mm	f/2.5	f/16	Same as above, in focusing mount.	46.20 Inc. F.E.T.
	38 mm	f/3.5	f/22	Same as above, in focusing mount.	41.25
	38 mm	f/3.5	f/22	Same as above, but fixed focus.	24.75
	38 mm	f/2.5	f/22	Same as above, but in focusing mount.	57.75
EASTMAN					
KODAK EKTAR	101 mm	f/4.5	f/32	Color-corrected; 4-element with rear pair cemented; coated; covers 2¼x3¼; in Kodak Rapid Synchro 800 Shutter.	76.80
	105 mm	f/3.7	f/32	As above; 5-element with 2 cemented pairs; in No. 2 Flash Supermatic Shutter.	83.80
	127 mm	f/4.7	f/32	Same as 101 mm; covers 3¼x4¼; in Flash Supermatic Shutter.	67.55
	127 mm	f/4.7	f/32	Same as above; in Supermatic-X Shutter.	58.55
	152 mm	f/4.5	f/45	Same as above; in No. 3 Flash Supermatic Shutter; covers 4x5.	89.15
	7½"	f/4.5	f/45	Same as above; in Ilex Acme Synchro Shutter; covers 5x7.	170.00
	7½"	f/4.5	f/45	Same as above; in Ilex Universal Shutter.	133.75

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
KODAK EKTAR	7½"	f/4.5	f/45	Same as above; in barrel with iris diaphragm.	$107.10
	8"	f/7.7	f/45	Color-corrected; 4-element air spaced; coated; covers 5x7, in Flash Supermatic Shutter.	72.70
	12"	f/4.5	f/32	Color-corrected; 4-element with rear pair cemented; coated; covers 8x10, in Ilex Universal Synchro Shutter.	266.35
KODAK COMMERCIAL EKTAR	8½"	f/6.3	f/45	Designed for color work as well as black-and-white; well suited for portrait and exacting commercial work; 4 elements; rear pair cemented; coated; barrel mount; covers 5x7; click stops.	109.70
	8½"	f/6.3	f/45	Same as above; in No. 3 Ilex Acme Synchro Shutter.	165.00
	10"	f/6.3	f/45	Same as above; in barrel mount; covers 6½x8½.	150.00
	10"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	210.00
	12"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	184.25
	12"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	250.00
	14"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	214.25
	14"	f/6.3	f/45	Same as above; in No. 5 Ilex Universal Synchro Shutter.	280.10
KODAK WIDE FIELD EKTAR	80 mm	f/6.3	f/32	Corrected for color; 4 elements; air spaced; coated; maintains high degree of perfection at unit magnification; focus does not change at various stops; screw-in filter retaining rings; Kodak Flash Supermatic Shutter; covers 2¼x3¼ at f/6.3 with 75° field; 3¼x4¼ at f/16 with 80° field.	117.60
	100 mm	f/6.3	f/32	Same as above; covers 3¼x4¼ at f/6.3 with 75° field; 4x5 at f/16 with 80° field.	122.65
	135 mm	f/6.3	f/32	Same as above; covers 4x5 at f/6.3 with 75° field; 5x7 at f/16 with 80° field.	132.00
	190 mm	f/6.3	f/45	Same as above; No. 4 Ilex Acme Synchro Shutter; covers 5x7 at f/6.3 with 75° field; 8x10 at f/16 with 80° field.	199.15
	250 mm	f/6.3	f/45	Same as above; No. 5 Ilex Universal Synchro Shutter; covers 8x10 at f/6.3 with 75° field; 11x14 at f/16 with 80° field.	232.10
KODAK CINE EKTAR	15 mm	f/2.5		Fully color corrected; coated; depth of field scale; wide angle for 16-mm movie cameras.	78.25
	25 mm	f/1.9		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	97.10
	25 mm	f/1.4		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	194.25
	40 mm	f/1.6		Same as above.	114.40
	63 mm	f/2.0		Same as above.	115.40
	102 mm	f/2.7		Same as above for 16-mm movie cameras.	124.30
	152 mm	f/4.0		Same as above.	146.60
KODAK CINE EKTANON	9 mm	f/2.7		Coated; wide angle for Cine Kodak Magazine 8 camera.	50.00
	13 mm	f/1.9		Coated; for 8-mm movie cameras with standard 8-mm screw mount.	42.95
	15 mm	f/2.7		Coated; wide angle for 16-mm movie cameras.	59.00
	25 mm	f/1.9		Coated; for 16-mm movie cameras with standard Type C threaded lens mount.	62.40
	38 mm	f/4.5		For Cine Kodak Eight Model 60 Camera.	42.85
	38 mm	f/2.8		Coated; for 8-mm movie cameras with standard 8-mm screw mounts.	39.00
	38 mm	f/2.5		Coated; for Cine Kodak Magazine 8 camera.	50.40
	50 mm	f/1.6		Coated; for 8 and 16-mm movie cameras.	84.20
	63 mm	f/2.7		Same as above.	67.55
	102 mm	f/2.7		Coated; for 16-mm movie cameras.	75.25
	152 mm	f/4.5		Same as above.	86.00
KODAK ENLARGING EKTAR LENSES	2"	f/4.5	f/22	Color corrected; click stops; coated; in 2⅝x2⅛ metal lensboard, for negatives to 1 3/16x1 5/16.	44.30
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼.	46.80
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	49.90
KODAK ENLARGING EKTANON	50 mm	f/4.5	f/22	High quality; designed largely for black-and-white; coated; click stops; in 2⅝x2⅞ plastic lensboard.	14.00
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼.	22.95
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	29.20
	5⅜"	f/4.5	f/22	Same as above; for negatives to 3¼x4¼.	44.50
	6⅜"	f/4.5	f/22	Same as above; for negatives to 4x5.	49.90
	7½"	f/4.5	f/32	Same as above; click stops; also recommended for color enlarging; for negatives to 5x7.	83.30
	10"	f/4.5	f/32	Same as above; for negatives to 8x10.	139.50
	10"	f/8	f/45	Same as above; especially recommended where maximum definition is required.	127.45
ELGEET					
STANDARD CINE (for 8-mm)	½"	f/1.9	f/22	Fixed focus mount; standard 8-mm "D" thread; coated; click stops; depth of field scale; chrome finish.	32.45 Inc. F.E.T.
	½"	f/1.9	f/22	Focusing mount to 1.5 feet; standard 8-mm "D" thread; coated; click stops; chrome finish; filter retainer.	43.60 Inc. F.E.T.
CINE-TEL (for 8-mm)	½"	f/2.5	f/22	Fixed focus mount; standard 8-mm "D" thread; coated; click stops; chrome.	19.80 Inc. F.E.T.
	1"	f/1.9	f/22	Focusing mount to 2 feet; 2x linear magnification; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	58.35 Inc. F.E.T.
	1½"	f/1.5	f/16	Focusing mount to 2 feet; 3x linear magnification; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	68.35
	1½"	f/1.5	f/16	Same as above, but with Kodak Magazine mount.	68.35
	1½"	f/2.5	f/16	Focusing mount to 2.5 feet; 3x linear magnification; standard 8-mm "D" thread; coated; chrome finish; filter retainer.	46.95
	1½"	f/2.5	f/16	Same as above, but with Bell & Howell Auto-8 thread.	55.85
	1½"	f/3.3	f/16	Focusing mount to 4 feet; 3x linear magnification; coated; click stops; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8.	41.75
	1½"	f/3.5	f/16	Fixed focus mount; 3x linear magnification; standard 8-mm "D" thread; coated; click stops; depth of field scale; chrome finish; filter retainer.	29.75
	3"	f/2.9	f/22	Focusing mount to 3 feet; 6x linear magnification; coated; chrome finish; filter retainer; standard 8-mm "D" thread or mount for B&H Auto-8 focusing to 3.5 feet.	63.45
WIDE ANGLE (for 8-mm)	7 mm	f/2.5	f/16	Fixed focus; supplied in standard "D" mount thread; B&H mounting; and Kodak mounting; covers 4x area of standard ½" lens; filter retaining ring supplied; chrome finish.	44.55 Inc. F.E.T.
	7 mm	f/1.9	f/22	Fixed focus; supplied for cameras with "D" mount thread; B&H camera models 172-A, 172-B and 134-V; and Kodak Magazine model 90; click stops; depth of focus scale; chrome finish; filter retaining ring; covers 4x area of standard ½" lens.	63.20 Inc. F.E.T.
	7.5 mm	f/1.5	f/22	Focusing mount to 1.5 feet; covers 3½x area of standard ½" lens; coated; chrome finish; filter retaining ring; standard "D" mount thread or for B&H cameras models 172-A, 172-B and Sportster model 134-V.	77.65 Inc. F.E.T.
STANDARD CINE (for 16-mm)	1"	f/1.9	f/22	Focusing mount to 2 feet; standard 16-mm "C" thread; coated; click stops; depth of field scale; chrome finish; filter retainer.	58.35 Inc. F.E.T.
CINE-TEL (for 16-mm)	51 mm	f/3.5	f/16	Fixed focus; 2x magnification; chrome finish; standard 16-mm "C" mount thread.	36.40
	3"	f/2.9	f/22	Focusing mount to 3 feet; 3x linear magnification; coated; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	68.35
	4"	f/2.7	f/22	Focusing mount to 2.5 feet; 4x linear magnification; coated; depth of field scale; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	88.95
WIDE ANGLE (for 16-mm)	13 mm	f/1.5	f/16	Focusing mount to 1 foot; covers 4x the area of the standard 1" lens; coated; click stops; depth of field scale; chrome finish; filter retainer; standard 16-mm "C" thread or Kodak Magazine mount.	95.70 Inc. F.E.T.
TELEPHOTO (for 35-mm)	4"	f/4.5	f/22	For all models Kine Exacta; 2x linear magnification; light weight aluminum mounting; focusing mount to 6 feet; coated; filter retainer.	51.15 Inc. F.E.T.
	4"	f/4.5	f/22	For Praktiflex, Practica, Clarus, Exacta, Mercury, Rectaflex, all models, same as above.	51.15 Inc. F.E.T.

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		Accessories	
with f3.5 Meyer Lens	$185.00	Set of Extension Tubes	$ 30.00
with f2.8 CZ Tessar Lens	199.50	240mm f5.5 Telemegor	180.00
Deluxe Eveready Case	14.95	Flash Cord	7.50

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4⅛" f3.5 CZ Tessar Compur Rapid Synch.—for 2¼x3¼	$ 75.00
5¼" f4.5 CZ Tessar Press Compur Synch.—up to 4x5	79.50
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6" f3.5 CZ Tessar Compur—for 4x5	150.00

Many others in shutter and barrel up to 12 inches. All "T" coated.

Famous Zeiss Contax S f2 Biotar—automatic diaphragm	$460.00
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38mm f3.3 focusing	41.75
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38mm f1.5 focusing	68.35
51mm f3.5 fixed focus	36.40
75mm f2.9 focusing	63.45

Wide-Angle

7mm f1.9	63.20
7.5mm f1.5	77.85
7mm f2.5	44.35

16mm Lenses

Telephoto

51mm f3.5 fixed focus	$36.40
75mm f2.9 focusing	63.45
102mm f2.7 focusing	88.95

Wide-Angle

13mm f1.5	95.70

Optical Finders for 8mm B&H, Tri-Lens and Auto-8	$ 5.95
Optical Finders for 16mm B&H, (2", 3", 4", 6")	8.80
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These lenses can be had for cameras such as Cine Kodak, Bell & Howell, Revere, Bolex, Keystone, etc.

In ordering, specify make and model of camera

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Size of camera and choice of lens determines price of complete outfit.

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	f3.5 Zeiss Tessar	339.00	299.00
	f3.7 Ektar	339.00	299.00
3¼ x 4¼	f4.7 Optar 5¼"	313.00	268.00
	f4.7 Ektar 5"	313.00	268.00
	f4.5 CZ Tessar 5¼"	329.00	284.00
4 x 5	f4.7 Optar 5¼"	318.00	273.00
	f4.7 Ektar 5"	318.00	273.00
	f4.5 Ektar 6"	343.00	298.00
	f4.5 CZ Tessar 5¼"	334.00	289.00
	f4.5 CZ Tessar 6"	339.00	294.00
	f3.5 CZ Tessar 6"	399.00	354.00

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for 3x4 and 4x5 sizes	21.50
Grafmatic (6 septum) holders 2¼x3¼, $14.85—4x5	21.95
Polaroid back for 4x5 Graphics	77.50
Graflarger—complete with stand	52.50
Graflite Side Lighting Unit	14.00

LENSES for 2¼ x 3¼

65mm Schneider Angulon, sync	$ 59.50
65mm Graflex Optar wide angle, full sync	98.20
80mm Wide Field Ektar	117.60
8" f5.6 Graflex Tele-Optar, 1/400 sync	143.10
10" f5.6 Graflex Tele-Optar, sync	153.00
240mm f5.5 Tele-Xenar, press Compur, sync	138.85

LENSES for 3¼ x 4¼ and 4 x 5

90mm f6.8 Schneider Angulon w. a. full sync	69.50
90mm f6.8 Graflex Optar, full sync	99.50

LENSES for 3¼ x 4¼ and 4 x 5

100mm f6.3 Wide Field Ektar, flash super	122.65
25cm 10" f5.6 Graflex Tele-Optar: Barrel Mt	129.00
Graphex shutter	153.00
240mm f5.5 Tele-Xenar press Compur sync	99.50
270mm f5.5 Tele-Xenar Compur sync	125.00
15" f5.6 Tele-Optar, Alphax sync	213.00
360mm f5.5 Tele-Xenar, Compound sync	170.00
500mm f5.5 Tele-Xenar, Compound sync	445.00

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FOR THE ULTIMATE IN 35mm PHOTOGRAPHY

Kine Exakta VX with AUTO Diaphragm, f2.8 ctd. Zeiss Tessar	$269.50
Kine Exakta VX with AUTO Diaphragm, f2.0 ctd. Zeiss Biotar	343.00

EXAKTA LENSES AND ACCESSORIES

Penta-Prism Eye Level Finder	$ 50.00
35mm f2.5 Angenieux Retrofocus wide angle, coated	99.50
40mm f3.5 Steinheil wide angle, coated	49.50
85mm f2.8 Steinheil telephoto, light weight, coated	68.00
90mm f1.8 Angenieux telephoto, coated	149.50
135mm f4.5 Steinheil telephoto, light weight, coated	60.00
150mm f5 Schneider Tele-Xenar	49.50
180mm f5.5 Schneider Tele-Xenar	74.50
240mm f5.5 Schneider Tele-Xenar	99.50
300mm f5.5 Schneider Tele-Xenar, coated	124.00
360mm f5.5 Schneider Tele-Xenar, coated	139.00
400 mm f5.5 Meyer Telemegor, coated	199.50
Genuine Imported Exakta Extension Tube Set	24.00

NEW SPECIAL EXAKTA VX OUTFIT—consisting of camera with f3.5 CZ Tessar coated, f3.5 wide angle and 90mm f.4 telephoto lenses $299.00

35mm EXA OUTFIT consisting of camera with f2.9 coated Meritar lens, 90mm f4 coated telephoto lens, eveready case, flashgun, lens hood, adapter ring and two filters 149.50

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The only twin-lens reflex for 2¼" x 2¼" roll or cut film as well as 35mm

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GENUINE ROLLEIFLEX ACCESSORIES

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Lens hood, bayonet mount	5.12
Rolleinar lenses, set of 2, in case	18.69
Rolleipar lens, corrects parallax—in case	9.06
Cutfilm Back Set, includes 3 holders	38.28
Rolleikin 35mm Attachment	35.78
Focusing Hood Extension	1.50
Panorama Head	14.16

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Telephoto, coated bayonet mount for Rolleiflex and 'cords .. $79.50

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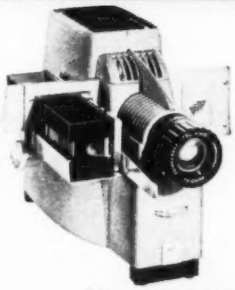

TDC VIVID

Slide Projectors for 2x2 slides

Newest Model "Streamliner 500"

With 500 watts of highly efficient lighting, and a powerful, quiet blower for extreme coolness, this is the world's most advanced home-type projector. Has 5" coated f/3.5 anastigmat lens, and includes SELECTRON-Semimatic changer. Strikingly superior performance and value at ..... $84.50 tax incl.

TDC "Mainliner 300"

A 300-watt blower-cooled projector of exceptional brilliance and coolness, unmatched for performance at the price. Beautifully styled in deep blue and silver-grey with gleaming silver ribs. Has 5" f/3.5 anastigmat lens in helical focusing mount, positive micro-tilt adjustment, broad stable base. With SELECTRON-Semimatic changer as shown ..... $68.50 tax incl.
With deluxe manual changer ..... 58.50 tax incl.
All projectors shipped prepaid.

Duo Vivid Viewer

An illuminated table viewer for 2x2 and 2¼x2¼ slides. Features even illumination, and curved hood to shade picture from room light. Stands nearly 7 inches high, with 9 sq. in. rectangular lens for corner to corner sharpness. With cord and switch, takes AC or DC $12.50

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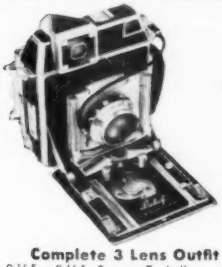

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One Camera with Everything
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All in fully synchronized MX Compur Rapid Shutter with speeds to 1/500 sec. and all mounted and coupled to rangefinder $575.00

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4 x 5 SUPER TECHNIKA less lens and shutter	299.75
4 x 5 SUPER TECHNIKA one lens outfit with 150mm f4.5 Xenar cpr. synch. shutter	376.90
4x5 SUPER TECHNIKA two lens outfit, as above, plus 90mm f6.8 Angulon cpr. rapid synch	$450.05
4 x 5 SUPER TECHNIKA 3 lens outfit, as above, plus 240mm f5.5 Tele-xenar press compr. synch	575.30
5 x 7 SUPER TECHNIKA less lens and shutter	449.75

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Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
COLORSTIGMAT (Enlarging lens)	2"	f/4.5	f/22	Fully color corrected; coated; click stops; chrome finish; with flange.	$18.45
	3½"	f/4.5	f/22	Same as above.	26.55
	4½"	f/4.5	f/22	Same as above.	32.80
	5"	f/5.6	f/22	Same as above.	32.80
	5½"	f/4.5	f/22	Same as above.	39.20
	6½"	f/4.5	f/22	Same as above.	56.75
	10"	f/4.5	f/32	Same as above.	135.50
GOERZ					
APOCHROMAT ARTAR, Anastigmat	4"	f/9		Four elements, in two uncemented pairs; for color separation, black-and-white reproduction, outdoor scenes, architecture, etc.; listed coverage increases 15% if reversing prism is not used; in iris barrel with slots for stops and filters; covers 4x5 film at 1:1.	85.00
	6"	f/9		Same as above. Covers 6x8 film—This and above lens for color separation blowups from 35-mm (and up) color film.	100.00
	9½"	f/9		Same as above; covers 8x10 film at 1:1.	160.00
	10¾"	f/9		Same as above; covers 9x12 film at 1:1.	165.00
	12"	f/9		Same as above; covers 12x14 film at 1:1.	180.00
	14"	f/9		Same as above; covers 14x17 film; this and all above lenses can be fitted to shutters.	210.00
	16½"	f/9.5		Same as above; covers 16x20 film at 1:1; this and all lenses below can be fitted only in iris barrel with slots.	220.00
	19"	f/11		Same as above; covers 18x24 film at 1:1.	235.00
	24"	f/11		Same as above; covers 24x28 film at 1:1.	320.00
	30"	f/12.5		Same as above; covers 30x34 film at 1:1.	440.00
	35"	f/12.5		Same as above; covers 36x40 film at 1:1.	621.00
	42"	f/14		Same as above; covers 42x48 film at 1:1.	732.00
	47½"	f/15		Same as above; covers 48x56 film at 1:1.	834.00
	70"	f/16		Same as above; covers 72x80 film at 1:1.	Upon request
DAGOR, Anastigmat	40 mm	f/6.8	f/45	Six-element general purpose lens; for use on 35-mm document cameras.	85.00
	60 mm	f/6.8	f/45	Same as above.	85.00
	3½"	f/6.8	f/45	When stopped down acts as wide angle lens with field of 87°; single element at a speed of f/13 may be used alone, with focal length about 1¾ times that of doublet; covers 2x2¾ open and 3¼x4¼ stopped down.	95.00
	4⅛"	f/6.8	f/45	Same as above; covers 2¼x3¼ negative open, 4x5 stopped down.	100.00
	5"	f/6.8	f/45	Same as above; covers 3¼x4¼ negative open, 5x7 at f/45.	105.00
	6"	f/6.8	f/45	Same as above; covers 4x5 negative open, 6½x8½ stopped down.	110.00
	6½"	f/6.8	f/45	Same as above; covers 3¼x5½ open, 7x9 stopped down.	120.00
	7"	f/6.8	f/45	Same as above; covers 5x7 open, 8x10 stopped down.	135.00
	8¼"	f/6.8	f/45	Same as above; covers 5x8 open, 10x12 stopped down.	150.00
	9½"	f/6.8	f/45	Same as above; covers 6½x8½ open, 11x14 stopped down.	180.00
	10¾"	f/6.8	f/45	Same as above; covers 7x9 open, 12x16 stopped down.	215.00
	12"	f/6.8	f/45	Same as above; covers 8x10 open, 14x17 stopped down.	240.00
	14"	f/7.7	f/45	Covers 10x12 open, 16x20 stopped down.	290.00
	16½"	f/7.7	f/45	Same as above; covers 11x14 open, 20x24 stopped down.	370.00
	19"	f/7.7	f/45	Same as above; covers 14x17 open, 22x26 stopped down.	465.00
SUPER-DAGOR, Wide Angle, Anastigmat	3⅝"	f/8	f/45	Front or rear combination may be used as a long-focus lens at medium stops; angle of field at smallest stop, 100°; price is for lens in iris barrel; covers 3¼x4¼ to 4x5 negative; requires Rapax No. 2 shutter.	115.00
	4⅜"	f/8	f/45	Covers 4x5 to 5x7 negative; requires Rapax No. 3 shutter.	135.00
	6½"	f/8	f/45	Covers 5½x7½ to 8x10 negative; requires Rapax No. 3 or Acme No. 3 shutter.	145.00
DOGMAR, Anastigmat	3⅛"	f/4.5	f/32	Four elements, in two uncemented pairs; each pair makes a complete unit which may be used separately; front has a focal length of 1.92 times doublet at speed of f/9; rear has length of 1.52 times the doublet at a speed of f/8; for news cameras and 1-shot color work; covers 1¾x2⅜ negative at full aperture.	65.00
	4⅛"	f/4.5	f/32	Same as above; covers 2x3 negative.	80.00
	5¼"	f/4.5	f/32	Same as above; covers 3¼x4¼ negative.	85.00
	6"	f/4.5	f/32	Same as above; covers 3½x4¾ negative.	100.00
	6½"	f/4.5	f/32	Same as above; covers 3¼x5½ negative.	125.00
	7½"	f/4.5	f/32	Same as above; covers 4¼x6¼ negative.	150.00
	8¼"	f/4.5	f/32	Same as above; covers 5x7 negative.	170.00
	9½"	f/4.5	f/32	Same as above; covers 5½x7½ negative.	200.00
	10¾"	f/4.5	f/32	Same as above; covers 6½x8½ negative.	225.00
	12"	f/4.5	f/32	Same as above; covers 7x9 negative.	245.00
GOTAR, Anastigmat	8¼"	f/6.8		Four elements, in two uncemented pairs; for black-and-white, process, and copying, or for reproduction of fine detail in flat surface design; in iris barrel, no slot; covers 5x7 film at infinity, 10x12 at 1:1.	145.00
	10"	f/8		Same as above; covers 6½x8½ film.	160.00
	12"	f/8		Same as above; covers 8x10 film.	170.00
	14"	f/8		Same as above but with slot; covers 10x12 film.	205.00
	16½"	f/8		Same as above; covers 11x14 film.	225.00
	19"	f/8		Same as above; covers 12x16 film.	240.00
	24"	f/10		Same as above; covers 14x17 film.	270.00
KINO-HYPAR, Anastigmat	0.6"	f/2.7		Three-element lens for 16-mm movie cameras; in focusing mount; coated. For wide angle work with 16-mm cameras.	Upon request
CINE APOGOR, Anastigmat	35 mm	f/2.3	f/16	Six-element high quality lens for 16 (and 35-mm) movie cameras; corrected for all aberrations at full opening; comes in "C" focusing mount; coated.	
	50 mm	f/2.3	f/22	Same as above; coated.	Upon request
	75 mm	f/2.3	f/32	Same as above; coated.	
C-DOGMAR, Anastigmat	6"	f/4.5		Four-element lens for telephoto work with 35-mm movie cameras; in iris barrel.	110.00
RECTAGON	3"	f/6	f/22	Wide angle for general purposes; covers 4x5; can be used wide open; maximum average resolution at f/16; coated; in barrel with iris.	100.00
HYPAR Anastigmat	0.6"	f/2.7		Three-element lens for 16-mm movie cameras; in focusing mount; wide angle.	Upon request
GRAFLEX					
GRAFTAR	103 mm	f/4.5	f/32	For still cameras, all surfaces coated, triplet formula suitable for color photography for 2¼x3¼ film for general photography, including portrait, personal, and enlarging, mounted in Century MF Synchro shutter.	28.00
OPTAR	101 mm	f/4.5	f/32	For still cameras; corrected for color work; all lens surfaces coated; anastigmat; mounted in Graphex Synchro shutter; covers 2¼x3¼ film; for portrait, commercial copy, and enlarging.	72.60
	135 mm	f/4.7	f/32	Same as above; covers 3¼x4¼ film; used on 4x5.	85.30
	135 mm	f/4.7	f/32	Same as above; in Graphex X shutter.	66.60
	162 mm	f/4.5	f/32	Same as above; covers 4x5 in. No. 3 Graphex Synchro shutter.	106.95
	162 mm	f/4.5	f/32	Same as above; in No. 3 Graphex (X) shutter.	92.65
	203 mm	f/7.5	f/32	For view and other still cameras; corrected for color; all surfaces coated; anastigmat; portrait commercial and enlarging; intended to be used on 4x5 view cameras, in No. 2 Graphex Synchro shutter.	86.35
TELE-OPTAR	202 mm	f/5.6	f/32	For still photography; anastigmat; all surfaces coated; covers 3¼x4¼; in barrel with iris diaphragm.	96.90
	202 mm	f/5.6	f/32	Same as above, in No. 2 Graphex Synchro shutter.	143.10
	10"	f/5.6	f/32	For still photography; Optar formula; all surfaces coated; covers 4x5 film; in barrel mount.	129.90

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
TELE-OPTAR	10"	f/5.6	f/32	Same as above, in No. 3 Graphex shutter.	$153.00
	10"	f/5.6	f/32	Same as above, in No. 3 Graphex (X) shutter.	161.25
	15"	f/5.6	f/32	Same as above; covers 4x5 film; in barrel.	192.45
	15"	f/5.6	f/32	Same as above, in No. 4 Alphax Synchro shutter.	213.10
WIDE ANGLE OPTAR	65 mm	f/6.8	f/32	For interior, architectural and group photography; focusing aperture at f/6.8, taking apertures from f/11 to f/32; all surfaces coated; in Graphex Synchro shutter; covers 3¼x4¼ film.	98.20
	90 mm	f/6.8	f/32	For interiors, banquet, and architectural work; focusing aperture f/6.8; taking apertures from f/11 to f/32; all surfaces coated; in Graphex Synchro shutter; covers 3¼x4¼ and 4x5 films.	Upon request
GUNDLACH					
GUNDLACH ANASTIGMAT, Series IV	5¼"	f/6.3		Enlarging, copy work, and commercial work; 4 elements in combinations of 2; flat field; also available in Rapax and Alphax shutters; covers 3¼x4¼ negatives; price in barrel.	34.00 Plus Tax
	6½"	f/6.3		Same as above; available in Betax and Rapax shutters; covers 4x5 negatives; price in barrel.	40.00
	7½"	f/6.3		Same as above; covers 5x7 negatives.	54.00
	8½"	f/6.3		Same as above; available in Alphax and Rapax shutters; covers 5x8 negatives; price in barrel.	74.00
	10½"	f/6.3		Same as above; also available in Acme shutter; covers 6½x8½ negatives; price in barrel.	90.00
	12"	f/6.3		Same as above; available in Betax and Acme shutters; covers 8x10 negatives; price in barrel.	112.00
	16"	f/6.3		Same as above; available in Betax shutter; covers 11x14 negative; price in barrel.	140.75
GUNDLACH CONVERTIBLE	4½"	f/6.3		Triple convertible 8-element lens; corrected for color; available in various shutters; front focus, 8", rear focus, 8"; covers 3¼x4¼ film; in barrel.	60.00
	5⅛"	f/7		Same as above; covers 3¼x5 film; front focus, 10"; rear focus, 8".	61.00
	5¾"	f/6.3		Same as above; covers 4x5 film; front focus, 10"; rear focus, 10".	66.00
	6¼"	f/7.7		Same as above; covers 4x5 film; front focus, 14"; rear focus, 9".	70.00
	6½"	f/7		Same as above; covers 4x5 film; front focus, 13"; rear focus, 10".	73.00
	7"	f/7.7		Same as above; covers 5x7 film; front focus, 15½"; rear focus, 10".	80.00
	7½"	f/6.3		Same as above; covers 5x7 film; front focus, 13"; rear focus, 13".	86.00
	7¼"	f/7		Same as above; covers 5x7 film; front focus, 14"; rear focus, 11½".	87.00
	7⅜"	f/7.7		Same as above; covers 5x8 film; front focus, 16¼"; rear focus, 11½".	98.00
	8"	f/6.3		Same as above; covers 5x8 film; front focus, 14"; rear focus, 14".	98.00
	8⅜"	f/7		Same as above; covers 5x8 film; front focus, 15½"; rear focus, 13".	98.00
	9⅛"	f/7.7		Same as above; covers 6½x8½ film; front focus, 19"; rear focus, 14".	107.00
	8⅜"	f/7		Same as above; covers 6½x8½ film; front focus, 16¼"; rear focus, 14".	129.00
	10⅞"	f/7.7		Same as above; covers 6½x8½ film; front focus, 24"; rear focus, 14".	140.75
	11½"	f/6.3		Same as above; covers 8x10" film; front focus, 20"; rear focus, 20".	151.75
	12¼"	f/7		Same as above; covers 8x10 film; front focus, 24"; rear focus, 19".	160.75
	12½"	f/7.7		Same as above; covers 8x10 film; front focus, 27"; rear focus, 19".	170.75
	14½"	f/7		Same as above, covers 10x12 film; front focus, 27"; rear focus, 24".	184.25
	15"	f/7		Same as above; covers 11x14 film; front focus, 29"; rear focus, 24".	217.25
KORONA CONVERTIBLE	6¼"	f/6.3		Triple convertible; color corrected; front focus 12"; rear focus 9"; in Rapax.	91.00
TURNER-REICH CONVERTIBLE, Anastigmat	5"	f/6.8	f/45 and f/64	Triple convertible, 10-element lens; all air surfaces coated; highly corrected for color; for studio, landscape, copy, commercial and enlarging; front focus, 12"; rear focus comb., 8"; covers 3¼x4¼ film; in barrel.	70.00 Plus Tax
	6¼"	f/6.8	f/45 and f/64	Same as above; covers 4x5 film; focus front comb., 14"; rear comb., 11".	79.00
	7½"	f/6.8	f/45 and f/64	Same as above; covers 5x7 film; focus front comb., 18"; rear comb., 12".	94.00
	8½"	f/6.8	f/45 and f/64	Same as above; covers 5x8 film; focus front comb., 20"; rear comb., 14".	100.00
	10½"	f/6.8	f/45 and f/64	Same as above; covers 6½x8½ film; focus front comb., 24"; rear comb., 18".	136.00
	12"	f/6.8	f/45 and f/64	Same as above; covers 8x10 film; focus front comb., 28"; rear comb., 21".	172.25
	15"	f/6.8	f/45 and f/64	Same as above; covers 11x14 film; focus front comb., 36"; rear comb., 24".	241.00
RADAR ANASTIGMAT	6¼"	f/4.5	f/64	Fast 5-element lens; all air surfaces coated; flat field at full aperture; suitable for every class of photography; available in various shutters; covers 2¼x3¼ film; in barrel mount.	55.00
	7½"	f/4.5	f/64	Same as above; covers 5x7 film.	70.75
	8½"	f/4.5	f/64	Same as above; covers 5x8 film.	100.25
	10½"	f/4.5	f/64	Same as above; covers 6½x8½ film.	139.25
	12"	f/4.5	f/64	Same as above; covers 8x10 film.	175.25
	15"	f/4.5	f/64	Same as above; covers 10x12 film.	233.75
	18"	f/4.5	f/64	Same as above; covers 11x14 film.	246.25
RADAR SUPER WIDE ANGLE	4"	f/6.3		Covers 4x5; 80° angle, in Rapax Synchro shutter.	300.50 Inc. F.E.T.
RADAR EXTREME WIDE ANGLE	4⅜"	f/16	f/64	Coated anastigmat wide angle (90°) lens; critical definition; flat field; available in various shutters; for studio, commercial, and flash photography; covers 5x7 film; in barrel.	37.00 Plus Tax
	6¼"	f/16	f/64	Same as above, covers 8x10 film.	49.00
HUGO MEYER					
KINO PLASMAT	1"	f/1.5	f/16	High-speed anastigmat lens for 16-mm movie cameras; highly corrected; coated.	82.50
TRIOPLAN	1½"	f/2.7	f/16	Cooke Triplet type lens, coated; screw focusing mount; for 8-mm cameras.	49.50
	3"	f/2.8	f/16	Same as above, for 16-mm cameras.	78.00
PRIMOTAR	3½"	f/4.5	f/22	Enlarging lens; coated, highly corrected.	25.50
PRIMOPLAN	3½"	f/4.5	f/16	Enlarging lens; coated; highly corrected.	25.50
ICHIZUKA Dist.—Photographic Importing and Distributing Corp.					
KINOTEL ANASTIGMAT	1½"	f/3.5	f/16	For 8-mm cameras; has fixed focus; mount is chrome on brass, duraluminum.	11.95
	1½"	f/3.5	f/16	Same as above but has variable focus in mount.	15.95
	1½"	f/2.9	f/16	Same as above.	19.95
	1½"	f/2.7	f/16	Same as above.	21.95
	1½"	f/2.2	f/16	Same as above but with click stops and depth of focus scale.	27.95
	1½"	f/1.5	f/16	Same as above.	42.50
	3"	f/2.5	f/16	For 16-mm cameras; variable focus; click stops; depth of field scale.	39.95
ILEX					
NEW PARAGON, Anastigmat	2"	f/4.5		Highly corrected anastigmat; coated; for black-and-white and color work; covers 35-mm film; iris barrel.	30.84
	3"	f/6.3		Same as above; covers 2¼x2¼; iris barrel.	28.44
	3"	f/4.5		Highly corrected anastigmat; coated; for black-and-white and color work; available in Universal shutter for $41.30. Covers 2¼x2¼ film. All prices in right-hand column are for lens in barrel.	36.90
	3½"	f/6.3		Same as above; covers 2¼x3¼.	30.00
	3½"	f/4.5		Same as above; covers 2¼x3¼ film.	38.94
	4¼"	f/4.5		Same as above; covers 2½x3½ film.	46.32
	5"	f/4.5		Same as above; covers 3¼x4¼ film.	52.44
	5½"	f/4.5		Same as above; covers 3¼x4¼ film.	57.90

(Continued)

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
NEW PARAGON, Anastigmat	6 ½"	f/6.3		Same as above; covers 4x5.	$56.40
	6 ½"	f/4.5		Same as above; covers 4x5 film; in Ilex Universal, $77.45; in Ilex Acme No. 3, $83.15; in Acme Synchro shutter, $116.00.	69.90
	7 ½"	f/4.5		Same as above; covers 5x7 film; in Ilex Universal, $88.80; in Ilex Acme No. 3, $94.50; in Acme Synchro shutter, $127.35.	85.92
	8 ½"	f/4.5		Same as above; covers 5x8 film; in Ilex Universal, $108.20; in Ilex Acme No. 4, $113.90; in Acme Synchro shutter, $144.45.	122.04
	10"	f/4.5		Same as above; covers 6 ½x8 ½ film; in Ilex Universal, $153.50; also available in Ilexpo Studio shutter.	172.32
	12"	f/6.3		Same as above; covers 8x10 film; in Ilex Universal, $115.90; in Ilex Acme No. 4, $121.60; in Acme Syncare shutter, $152.15.	131.28
	12"	f/4.5		Same as above; covers 8x10 film; in Ilex Universal, $182.00.	206.52
	14 ¾"	f/6.3		Same as above; covers 11x14 film; in Ilex Universal, $200.40.	231.00
ILEX ENLARGING LENS	2"	f/4.5	f/32	Coated anastigmat lens; color corrected; barrel mount; iris diaphragm; Series C type; covers 1 ¼x1 ⅝ negative.	21.90
	3"	f/4.5	f/32	Same as above; covers 2 ⅛x2 ½ negative; Series S.	28.32
	3 ½"	f/4.5	f/32	Same as above; covers 2 ¼x3 ¼ negative.	30.36
	4 ¼"	f/4.5	f/32	Same as above; covers 2 ½x3 ½ negative.	39.24
	5"	f/4.5	f/32	Same as above; covers 3 ¼x4 ¼ negative.	46.08
	5 ½"	f/4.5	f/32	Same as above.	51.36
	6 ½"	f/4.5	f/32	Same as above; covers 4x5 negatives.	60.60
	7 ½"	f/4.5	f/32	Same as above; covers 5x7 negatives.	76.44
	8 ½"	f/4.5	f/32	Same as above.	114.24
KAJIRO Dist.—A. G. Photo Distributors					
KAJIRO ANASTIGMAT	38 mm	f/1.9	f/16	For 8-mm movie cameras; four elements, coated; focuses 3 ½ ft. to infinity	39.75
	38 mm	f/3.2	f/16	Same as above except is fixed focus.	15.00
KERN-PAILLARD Dist.—Paillard Products, Inc.					
SWITAR	12.5 mm	f/1.5	f/22	High speed lens for Bolex and other 8-mm cameras; focuses from ¾ ft. to infinity; depth of field scale; A.S.A. mount.	120.50
PIZAR	12.5 mm	f/1.9	f/22	Same as above.	95.75
LYTAR	12.5 mm	f/1.9	f/22	High speed lens for 8-mm cameras; focuses down to 1 ft., A.S.A. mount.	50.00
YVAR	25 mm	f/2.5	f/22	Fast telephoto for Bolex and other 8-mm cameras; focuses from 1 ½ ft. to infinity; A.S.A. mount.	55.00
	36 mm	f/2.8	f/22	Same as above; focuses from 2 ft. to infinity.	58.95
YVAR	16 mm	f/2.8	f/22	Wide angle lens for Bolex H-16 and other 16-mm cameras; focuses from 1 ft. to infinity; depth of field scale; in "C" mount.	76.50
SWITAR	25 mm	f/1.4	f/22	High speed lens for Bolex H-16; focuses from 1 ½ ft. to infinity; depth of field scale.	178.50
	25 mm	f/1.5	f/22	Same as above.	122.00
PIZAR	26 mm	f/1.9	f/22	Same as above; in "C" mount.	94.25
LYTAR	25 mm	f/1.9	f/22	High speed lens for 16-mm cameras; focuses down to 2 ft.; engraved depth of scale; "C" mount.	60.00
YVAR	75 mm	f/2.8	f/22	Telephoto for Bolex and other 16-mm cameras; depth of field scale; focuses from 5 ft. to infinity; in "C" mount.	87.50
	100 mm	f/3.3	f/22	Same as above; focuses from 8 ft. to infinity.	106.00
	150 mm	f/4	f/22	Same as above; focuses from 10 ft. to infinity.	145.75
KILFITT Dist.—Kling Photo Supply Corp.					
KILAR	3 ½"	f/3.5	f/32	For use on Contax and Leica by means of reflex housings; also on Kine Exakta with adapter.	75.00
	5 ¼"	f/3.8	f/32	Same as above.	90.00
	6"	f/3.5	f/32	Same as above.	97.50
	12"	f/5.5	f/32	Same as above.	130.00
	24"	f/5.5	f/32	Same as above.	695.50
LEITMEYR Dist.—Spiratone					
LIETMEYR WIDE ANGLE	90 mm	f/6.8	f/16	For Compur Rapid and Prontor II synchronized shutters; covers 3 ¼x4 ¼ film.	Upon request
	105 mm	f/6.8	f/16	Same as above but covers 4x5 film.	
	120 mm	f/6.8	f/16	Same as above but covers 5x7 film.	
NIKKOR Dist.—Nikon Camera Co., Inc.					
CINE NIKKOR	13 mm	f/1.9	f/16	High speed lens for 8-mm movie cameras; coated; chromium plated; choice of fixed focus or focusing mounts.	Upon request
	13 mm	f/2.5	f/32	Same as above, fixed focus only.	
	38 mm	f/1.9	f/16	High speed telephoto for 8-mm movie cameras, coated; color corrected; focusing mount.	59.50
NIKKOR ANASTIGMAT	35 mm	f/3.5	f/16	Wide angle lens for 35-mm cameras; all inner surfaces coated; Nikon (fits Contax) or Leica mount.	89.50
	50 mm	f/1.4	f/16	High speed standard lens for 35-mm cameras; diaphragm click stops; coated all inner surfaces; Nikon (fits Contax) or Leica mount.	198.00
	50 mm	f/2	f/16	Same as above without click stops.	107.00
	85 mm	f/2	f/16	Telephoto same as above.	175.50
	135 mm	f/3.5	f/16	Telephoto same as above with lens barrel tripod socket.	145.00
SCHNEIDER Dist.—Burleigh Brooks Co.					
XENAR	105 mm	f/3.5		General-purpose lens in barrel mount; coated; (Available in Compur Rapid Shutter for $65.43).	51.85 Inc. F.E.T.
	150 mm	f/3.5		Same as above (in Compur Shutter $109.00).	58.95
	180 mm	f/3.5		Same as above (in Compound Shutter $155.10).	96.45
	210 mm	f/3.5		Same as above (in Compound Shutter $174.00).	118.95
	240 mm	f/3.5		Same as above (in Compound Shutter $207.90).	148.50
	300 mm	f/3.5		Same as above.	270.75
	105 mm	f/4.5		General-purpose lens in barrel mount (in Compur Rapid Shutter $46.20); coated.	33.66
	135 mm	f/4.7		For all photographic purposes, in Compur Rapid Shutter.	47.95
	150 mm	f/4.5		General-purpose lens in barrel mount; coated; (in Compur Shutter $76.00).	40.35
	180 mm	f/4.5		Same as above (in Compur Shutter $101.70).	57.45
	210 mm	f/4.5		Same as above (in Compound Shutter $127.35).	73.95
	240 mm	f/4.5		Same as above (in Compound Shutter $169.05).	112.80
	270 mm	f/4.5		Same as above (in Compound Shutter $191.10).	139.95
	300 mm	f/4.5		Same as above (in Compound Shutter $225.00).	169.65
	360 mm	f/4.5		Same as above.	210.75
TELE-XENAR	180 mm	f/4.5		Special lens for distance work (in Compur Shutter $115.90); coated; in barrel mount.	86.70
	240 mm	f/4.5		Same as above (in Compur Shutter $155.10).	118.20
	180 mm	f/5.5		Same as above (in Compur Rapid Shutter $61.35).	52.20
	180 mm	f/5.5		Same as above but in new M-X Compur Rapid Synchro Shutter.	71.65
	240 mm	f/5.5		For Distance work; in barrel mount; coated; (in Compur Shutter $100.00).	70.65
	270 mm	f/5.5		Same as above (in Compur Shutter $125.00).	81.00
	300 mm	f/5.5		Same as above (in Compur Shutter $138.00).	96.45
	360 mm	f/5.5		Same as above (in Compound Shutter $170.00).	118.95

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
ANGULON WIDE ANGLE	65 mm	f/6.8		Uses six elements grouped as two triplets, maximum field of angle, 105 degrees (in M-X Compur Rapid Synchro Shutter $63.36); in barrel mount; coated.	$46.07 Inc. F.E.T.
	90 mm	f/6.8		Same as above (in M-X Compur Rapid Synchro Shutter $67.26).	46.07 Inc. F.E.T.
	120 mm	f/6.8		Same as above (in Compur Shutter $85.01).	52.53 Inc. F.E.T.
	165 mm	f/6.8		Same as above (in Compur Shutter $113.00).	68.85
	210 mm	f/6.8		Same as above (in Compound Shutter $125.85).	86.40
XENOGON	35 mm	f/2.8		A wide-angle for Leica, coupled to rangefinder; coated.	95.66 Inc. F.E.T.
SYMMAR	135 mm	f/6.8		A symmetrical anastigmat, six elements grouped in two triplets; single triplets may be used alone, giving focal length approximately twice that of combination. Field angle is 65 degrees wide open, 80 degrees stopped down; (in Compur Rapid Shutter $51.75).	40.35
	180 mm	f/6.8		Same as above (in Compur Shutter $91.80).	65.40
	210 mm	f/6.8		Same as above (in Compur Shutter $101.40).	77.25
	240 mm	f/6.8		Same as above (in Compur Shutter $137.70).	100.80
	300 mm	f/6.8		Same as above (in Compound Shutter $189.00).	148.80
	360 mm	f/6.8		Same as above (in Compound Shutter $225.30).	181.50
COMPONAR	50 mm	f/4.5		Enlarging lens; coated; in focusing mount with iris diaphragm; negative size 1 9/16x1 9/16.	16.85
	50 mm	f/3.5		Same as above.	27.80
	75 mm	f/4.5		Same as above; negative size 2 3/8x2 3/8.	19.76
	75 mm	f/3.5		Same as above.	30.15
	105 mm	f/4.5		Same as above; negative size 2 9/16x3 9/16.	22.00
	120 mm	f/4.5		Same as above; negative size 3 1/4x4 1/4.	24.00
	135 mm	f/4.5		Same as above; negative size 4x5.	35.00
CINEGON CINE LENSES (8-mm)	6.5 mm	f/1.9		For 8-mm movie cameras; high resolving power; coated; in focusing "C" mount.	136.00 Inc. F.E.T.
XENON CINE (8-mm)	13 mm	f/1.5		Same as above.	100.30 Inc. F.E.T.
	25 mm	f/1.5		Same as above.	81.02 Inc. F.E.T.
XENAR CINE (8-mm)	38 mm	f/2.8		Same as above.	58.95
	45 mm	f/2.8		Same as above.	58.95
CINEGON (16-mm)	11.5	f/1.9		Same as above, but for 16-mm movie cameras.	141.67 Inc. F.E.T.
XENON (16-mm)	16 mm	f/1.9		Same as above.	89.52 Inc. F.E.T.
	25 mm	f/1.5		Same as above.	90.27 Inc. F.E.T.
	50 mm	f/2.3		Same as above.	61.50
TELE-XENAR (16-mm)	75 mm	f/3.8		Same as above.	55.00
	100 mm	f/3.8		Same as above.	85.35
	150 mm	f/4.5		Same as above.	94.20
SPIRATONE					
SPIRATONE	6 mm	f/1.9	f/16	Wide angle lens for 8-mm movie cameras; anastigmat; coated; fixed focus; screw mount.	29.95 Inc. F.E.T.
	1"	f/3.5	f/16	Telephoto lens for 8-mm movie cameras; anastigmat; coated; screw mount; fixed focus.	9.95 Inc. F.E.T.
	1 1/2"	f/3.2	f/16	Same as above, but in focusing mount.	16.95
	1 1/2"	f/1.5		Focusing mount; click stops; depth of field scale.	39.95
	1 1/2"	f/1.9	f/16	Same as above.	29.95
	1 1/2"	f/2.5	f/16	Same as above.	23.95
STARR **Dist.—Starr Corp.**					
PLATAR	6 mm	f/1.9		Fixed focus.	Upon request
	1 1/2"	f/3.5		Fixed focus.	25.50
	1 1/2"	f/3.5		In focusing mount.	33.50
	1 1/2"	f/2.5		In focusing mount.	44.50
	3"	f/2.9		In focusing mount.	53.50
STEINHEIL **Dist.—Kine Camera Co.**					
ORTHOSTIGMAT	35 mm	f/4.5		Rangefinder-coupled wide-angle for Leica; coated.	Upon request
CULMINAR PORTRAIT	85 mm	f/2.8		Rangefinder-coupled for Leica, (with mount for Exakta $68.00).	83.00
CULMINAR TELEPHOTO	85 mm	f/2.8		For Praktiflex, Practica, and Contax-S.	68.00
	135 mm	f/4.5		For Exakta and Praktiflex, (RF coupled for Leica $75.00).	60.00
	135 mm	f/2.8		For Pratica and Contax-S.	60.00
CASSAR CINE TELEPHOTO	8 mm	f/2.8		For 8-mm movie cameras, coated.	39.95 Inc. F.E.T.
SUN **Dist.—Photographic Import. & Dist. Corp.**					
SUN	90 mm	f/4	f/22	Telephoto in focusing mount for Kine Exakta camera; coated.	51.95
	90 mm	f/4	f/22	Same as above, in coupled Leica mount.	59.95
	135 mm	f/3.8	f/22	Same as above; for Kine Exakta only.	59.95
	135 mm	f/3.8	f/22	Same as above; in coupled Leica mount.	66.95
KINOTAR WIDE ANGLE	6 mm	f/1.9	f/16	Anastigmat; coated; click stops; for 8-mm cameras.	39.95
ELITAR WIDE ANGLE	6 mm	f/1.9	f/22	For 8-mm cameras; anastigmat, fixed focus; click stops.	39.95
ELITAR TELEPHOTO (for 8-mm)	1"	f/3.5	f/16	For 8-mm cameras; fixed focus; chrome on brass.	9.95 Inc. F.E.T.
	1 1/2"	f/3.2	f/16	Same as above.	12.95
	1 1/2"	f/3.2	f/16	Same as above but in focusing mount.	17.95
	1 1/2"	f/2.5	f/16	Same as above.	26.95
	1 1/2"	f/1.9	f/16	Same as above but with click stops, depth of field scale.	38.95
	1 1/2"	f/1.5	f/16	Same as above.	42.50
	3"	f/2.5	f/16	Same as above.	39.95
WOLLENSAK					
RAPTAR, Series II, Anastigmat	50 mm	f/4.5	f/32	For general photography, portrait, commercial and copy work; coated; covers 1x1 1/2; in Rapax non-synch $40.00; in Rapax X synch $51.00; in Rapax full synch $68.33; in barrel with iris.	34.16 Inc. F.E.T.
	75 mm	f/4.5	f/32	Same as above; covers 2 1/4x2 1/4; in Rapax $48.25; in Rapax X synch $57.05; in Rapax full synch $71.08; in barrel with iris.	36.91 Inc. F.E.T.
	90 mm	f/4.5	f/32	For high-speed photography; portrait, commercial, enlarging and copy work; coated; iris diaphragm; barrel mount; chrome finish; in Rapax shutter $48.86 inc. tax; in Rapax full synch $71.69; covers 2 1/4x3 1/4 film; in barrel mount.	37.52 Inc. F.E.T.
	101 mm	f/4.5	f/32	Same as above; covers 2 1/4x3 1/4 film; in Rapax $49.77; in Rapax full synch $72.60, in barrel.	38.43 Inc. F.E.T.
	127 mm	f/4.5	f/32	Same as above; covers 3 1/4x4 1/4 film; in Rapax $55.68; in Alphax $53.48; in barrel.	36.98
	135 mm	f/4.7	f/32	Same as above; covers 4x5 film; in Rapax $57.84; in Alphax $55.64; in barrel with f/4.5 speed.	39.14
	162 mm	f/4.5	f/32	Same as above; covers 4x5 film; in Rapax $84.44; in Alphax $78.94; in barrel.	61.34
	7 1/2"	f/4.5	f/32	Same as above; covers 5x7 film; in Alphax $99.46, in barrel.	81.86
	8 1/4"	f/4.5	f/32	Same as above; covers 5x8 film; in Alphax $136.83; in barrel.	123.08
	9 1/2"	f/4.5	f/32	Same as above; covers 6 1/2x8 1/2 film; in Alphax $179.22; in barrel.	165.47
	11 7/8"	f/4.5	f/32	Same as above; covers 8x10 film; in Alphax $231.16; in barrel.	219.41
RAPTAR TELEPHOTO, Anastigmat	8"	f/5.6	f/45	For still photography; Raptar formula; covers 2 1/4x3 1/4 and 3 1/4x4 1/4 films; black lacquer finish; specially designed for sports, news and architectural work; coated; 2 1/2x linear magnification; in Rapax $115.62; in barrel.	96.92

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Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
RAPTAR TELEPHOTO, Anastigmat	10"	f/5.6	f/45	Same as above; covers 3 ¼x4 ¼ and 4x5 films; in Alphax $147.52; in Rapax $153.02; in barrel.	$129.92
	15"	f/5.6	f/45	Same as above; covers 4x5 and 5x7 films; in Alpax $206.22; in barrel.	192.47
RAPTAR WIDE ANGLE, Anastigmat	65 mm	f/6.8	f/32	For interior, group, banquet and architectural work; where lighting is poor; coated; taking apertures from f/11 to f/32; black lacquered brass mount; covers 3 ¼x4 ¼ film; in Rapax $75.40; in barrel.	64.06 Inc. F.E.T.
	90 mm	f/6.8	f/32	Same as above; covers 4x5 film; in Rapax $78.76; in barrel.	67.42 Inc. F.E.T.
	4½"	f/6.8	f/32	Same as above; covers 5x7 film; in Alphax $89.07; in Rapax $91.27, in barrel.	74.43 Inc. F.E.T.
EXTREME WIDE ANGLE, Series IIIa	159 mm	f/12.5	f/45	For extreme wide angle work in still photography; coated; anastigmat; covers 8x10 film; in Rapax $93.62; in Alphax $88.12; in barrel.	70.52
PORTRAIT VERITAR	10"	f/6		Soft focus lens for portraiture; covers 5x7 film; in barrel.	103.10
				Same as above, in Alphax.	116.85
	14"	f/8		Same as above, in barrel; covers 8x10 film.	165.75
				Same as above, in Alphax.	154.75
				NOTE: All Wollensak shutters are available with built-in synchronization at a slight additional charge over prices given.	
CINE-RAPTAR, Anastigmat	13 mm	f/2.5		Normal lens for 8-mm cameras; coated, fixed focus.	21.56 Inc. F.E.T.
	13 mm	f/1.9	f/16	For 8-mm movie cameras; coated; in chrome plated focusing mount.	48.98 Inc. F.E.T.
	13 mm	f/1.9		For 8-mm cameras; coated; in chrome plated fixed focus mount.	27.72 Inc. F.E.T.
	1"	f/1.5		Same as above, but for 16-mm cameras; click stops; depth of field scale.	98.00 Inc. F.E.T.
	1"	f/1.9	f/22	For 16-mm cameras; focusing mount.	61.30 Inc. F.E.T
	2"	f/1.9	f/16	Same as above.	90.75
	2"	f/1.5		For 16-mm cameras; in focusing mount; click stops; depth of field scale.	120.00
CINE-RAPTAR TELEPHOTO	25 mm	f/1.9		Hi-speed telephoto for 8-mm cameras; coated; in focusing mount.	61.30 Inc. F.E.T.
	1"	f/2.5	f/16	Anastigmat; coated; for 8-mm movie cameras; chrome focusing mount.	46.20 Inc. F.E.T.
	40 mm	f/1.5		For 16-mm cameras; chrome focusing mount.	95.00
	1½"	f/2.5		For 8-mm cine cameras; chrome focusing mount.	57.75
	1½"	f/3.5	f/22	For 8-mm movie cameras; anastigmat; coated; chrome focusing mount.	41.25
	1½"	f/3.5		Same as above but fixed focus.	24.75
	2"	f/1.9		For 16-mm cameras; chrome focusing mount.	90.75
	2"	f/1.5		Same as above.	120.00
	2"	f/3.5	f/16	For 16-mm cameras; focusing mount.	52.25
	3"	f/2.5		Same as above.	87.50
	3"	f/4	f/32	Same as above.	60.50
	4"	f/4.5	f/32	Same as above.	66.00
	6"	f/4.5	f/32	Same as above.	90.75
	75 mm	f/2.5		High speed telephoto for 8-mm movie cameras; coated; in focusing mount.	87.50
CINE-RAPTAR WIDE ANGLE	6.5 mm	f/1.9		For 8-mm cameras; fixed focus; coated.	70.00 Inc. F.E.T.
	9 mm	f/2.5		Same as above.	46.20 Inc. F.E.T.
	17 mm	f/2.7	f/16	For 16-mm movie cameras; anastigmat; in chrome focusing mount.	60.98 Inc. F.E.T.
	17 mm	f/2.7		Same as above but fixed focus.	30.18 Inc. F.E.T.
ENLARGING RAPTAR	2"	f/4.5	f/22	Anastigmat; screw, barrel mount; iris diaphragm; chrome plated; marking based on physical measurements.	24.02
	3"	f/4.5	f/32	Same as above; covers 2 ¼x2 ¼ negative.	26.18
	3½"	f/4.5	f/32	Same as above; covers 2 ¼x3 ¼ negative.	28.43
	4"	f/4.5	f/32	Same as above.	33.74
	5"	f/4.5	f/45	Same as above but covers 3 ¼x4 ¼ negative.	40.76
	5⅜"	f/4.5	f/32	Same as above but covers 4x5 negative.	43.46
	6⅜"	f/4.5	f/32	Same as above.	57.56
	7½"	f/4.5	f/45	Same as above but covers 5x7 negative.	78.62
	8¼"	f/4.5	f/32	Same as above; covers 5x8 negative.	110.12
	9½"	f/4.5	f/32	Same as above; covers 6½x8½ negative.	138.47
	11⅞"	f/4.5	f/32	Same as above; covers 8x10 negative.	192.41
ZEISS Dist.—Carl Zeiss, Inc.					
TESSAR, Anastigmat	2"	f/2.7		Four element; coated; iris diaphragm; available in Compur shutter; covers ¾x1 film; barrel mount.	Upon request
	7"	f/2.7		Same as above; covers 4 ¾x6 ½ film.	
	2"	f/2.8		Same as above; covers 1 3/16x1 9/16 film.	
	2⅜"	f/2.8		Same as above.	
	3"	f/2.8		Same as above; covers 1 ¾x2 5/16 film.	
	3⅛"	f/2.8		Same as above; covers 2 ¼x2 ¼ film.	
	2"	f/3.5		Same as above; covers 1 3/16x1 9/16 film.	
	2⅜"	f/3.5		Same as above; covers 1 9/16x1 9/16 film.	
	3"	f/3.5		Same as above; covers 1 ¾x2 5/16 film.	
	3⅛"	f/3.5		Same as above.	
	4⅛"	f/3.5		Same as above; covers 2 ½x3 ½ film.	
	4¾"	f/3.5		Same as above.	
	5¼"	f/3.5		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/3.5		Same as above; covers 4x5 film.	
	6½"	f/3.5		Same as above; covers 4x6 film.	
	8¼"	f/3.5		Same as above; covers 5x7 film.	
	10"	f/3.5		Same as above; covers 5x8 film.	
	12"	f/3.5		Same as above; covers 6½x8½ film.	
	1½"	f/4.5		Same as above; covers 1⅛x1 ¼ film.	
	2"	f/4.5		Same as above; covers 1 ¼x1 ½ film.	
	2¼"	f/4.5		Same as above; covers 1 ⅜x1 ¾ film.	
	2½"	f/4.5		Same as above; covers 1 ¾x2 film.	
	3"	f/4.5		Same as above; covers 2 ⅜x2 ⅜ film.	
	3½"	f/4.5		Same as above; covers 2 ¼x3 ¼ film.	
	4⅛"	f/4.5		Same as above; covers 2½x3½ film.	
	4½"	f/4.5		Same as above.	
	5¼"	f/4.5		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/4.5		Same as above; covers 4x5 film.	
	6½"	f/4.5		Same as above; covers 4x6 film.	
	7"	f/4.5		Same as above; covers 4 ¾x6 ½ film.	
	8¼"	f/4.5		Same as above; covers 5x7 film.	
	10"	f/4.5		Same as above; covers 5x8 film.	
	12"	f/4.5		Same as above; covers 6½x8½ film.	
	14"	f/4.5		Same as above; covers 6½x8½ film.	
	16"	f/4.5		Same as above; covers 6½x8½ film.	
	20"	f/4.5		Same as above; covers 8x10 film.	
	3"	f/6.3		Same as above; covers 2 ⅜x2 ⅜ film.	
	3½"	f/6.3		Same as above; covers 2 ¼x3 ¼ film.	
	4⅛"	f/6.3		Same as above; covers 2½x3½ film.	
	5¼"	f/6.3		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/6.3		Same as above; covers 4x5 film.	
	6½"	f/6.3		Same as above; covers 4x6 film.	
	7"	f/6.3		Same as above; covers 4 ¾x6 ½ film.	
	8¼"	f/6.3		Same as above; covers 5x7 film.	
	10"	f/6.3		Same as above; covers 5x8 film.	
	12"	f/6.3		Same as above; covers 6½x8½ film.	
	14"	f/6.3		Same as above; covers 8x10 film.	
	24"	f/6.3		Same as above.	
ZEISS, Jena Dist.—Ercona Camera Corp.					
CARL ZEISS UNIVERSAL TESSAR	40 mm	f/4.5		For Contax S; coated.	Upon request
	50 mm	f/3.5	f/22	Anastigmat; coated; covers 1 3/16x1 9/16; in Compur Rapid shutter $50; in barrel with iris.	39.00 Inc. F.E.T.
	50 mm	f/4.5	f/32	Same as above; covers 1 ⅜x2 ⅜; in Compur Rapid shutter $47.50, in barrel with iris.	36.00 Inc. F.E.T.

PHOTOGRAPHIC LENSES—Continued

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
CARL ZEISS UNIVERSAL TESSAR	75 mm	f/3.5	f/22	Same as above, covers 1 ¾x2 5/16.	45.00 Inc. F.E.T.
	75 mm	f/4.5	f/32	Same as above; covers 2 ⅞x2 ⅞.	36.00 Inc. F.E.T.
	105 mm	f/3.5	f/22	Same as above; covers 2 ½x3 ½.	55.00 Inc. F.E.T.
	105 mm	f/4.5	f/32	Same as above, in Compur Rapid shutter $54; in barrel with iris.	39.00 Inc. F.E.T.
	135 mm	f/4.5	f/32	Same as above; covers 3 ¾x4 ¾.	55.00
	135 mm	f/6.3	f/32	Same as above but covers 4x5, in Compur Rapid shutter.	55.00
	150 mm	f/3.5	f/22	Same as above; covers 4x5.	99.00
	150 mm	f/4.5	f/32	Same as above; in Press Compur $87; in barrel with iris.	60.00
	165 mm	f/3.5		Same as above; in Compound shutter $175; in barrel; covers 4x6.	120.00
	180 mm	f/4.5		Same as above; covers 4 ¾x6 ½; in Compur shutter $120; in barrel.	75.00
	210 mm	f/3.5		Same as above; covers 5x7; in Compound shutter $250; in barrel.	198.00
	210 mm	f/4.5		Same as above; in Compound shutter $150; in barrel.	99.00
	210 mm	f/6.3		Same as above; covers 5x7; in Press Compur shutter.	120.00
	250 mm	f/3.5		Same as above; covers 5x8; in Compound shutter $325; in barrel.	270.00
	250 mm	f/4.5		Same as above; covers 5x8; in Compound shutter $198; in barrel.	150.00
	300 mm	f/4.5		Same as above; covers 6 ½x8 ½; in Compound shutter $300; in barrel.	250.00
FLEKTOGON	35 mm	f/3.5		For Contax S; "T" coated.	Upon request
BIOTAR	58 mm	f/2		Fast lens for Contax S; "T" coated.	Upon request
	75 mm	f/1.5		Ultra fast lens for Contax S; "T" coated.	Upon request
TRIOTAR	135 mm	f/4		For Contax S; "T" coated.	
SONNAR	180 mm	f/2.8		Same as above.	
	300 mm	f/4		Same as above.	
TELE	500 mm	f/8		Same as above.	
ZOOMAR					
CINE-ZOOMATAR	1 ½"	f/1.3	f/11	For 8 and 16-mm movie cameras; fully corrected for high resolution at any stop; iris diaphragm; calibrated in f/ and T-stops; adapters available to fit most cameras.	
	3 ½"	f/1.3	f/11	Same as above, but for 16-mm cameras only and available in "C" mount only.	
WIDE-ANGLE ZOOMATAR	15 mm	f/1.2	f/11	Wide-angle lens for 16-mm cameras; high speed; flat field; Kodak type mount; iris diaphragm.	Upon request
SUPER ZOOMAR VARIFOCAL		f/2.5	f/16	Similar to above; improved type; focal length from 23 mm to 104 mm; equipped with five ultra-short range adapters and filter holder; factory installation recommended.	Upon request

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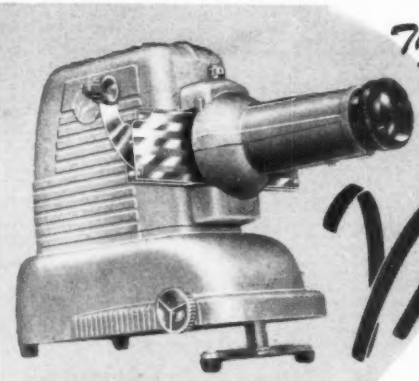

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FRONT (SUPPLEMENTARY) LENSES

Manufacturer or Distributor	Type	Fits Lens Mount	Slip-on or Screw-in	Purpose	Price
A. G. PHOTO DIST.					
Ikometer	Positive	See Col. 5	See Col. 5	Close-up lens for Super Ikonta A, B, BX, and C cameras; fits over camera lens and viewfinder; permits rangefinder focusing; +1 and +2 diopters.	$19.95
Super-Nooky	Positive	See Col. 5	See Col. 5	Close-up lens for Leica cameras; fits over camera lens and viewfinder; permits rangefinder focusing; models for Elmar, 73-mm Hektor, Thambar, Summar, Summitar and Schneider Xenon lenses.	17.95
CAMERA SPECIALTY					
Wirgin Telor Telephoto	Negative	See Col. 5	Screw-in	Telephoto for 8 and 16-mm cameras; 10 models for various lens mounts; 2x magnification, micrometer focusing mount.	29.50
Wirgin Cine Amplon	Positive	See Col. 5	Screw-in	Wide-angle for 8 and 16-mm cameras; 13 models for various lens mounts; 4 times normal area covered; micrometer focusing mount.	33.50
CHESS-UNITED CO.					
Chess-United Portrait	Positive	19-50.5 mm	See Col. 5	Portrait and close-up work—(+1, +2, +3 diopters) used with Chess-United Sunshade Filter Kits.	1.50 to 5.50
	Positive	See Col. 5	Screw-in	In Series sizes and other standard sizes; mounted and unmounted; for all still and movie cameras; +1, +2, +3 diopters.	2.75 to 3.95
EASTMAN KODAK					
Kodak Close-up Attach.	Positive	¾"-1 ¼"	Slip-on	Close-up attachment of +¾ diopter; sizes for almost every camera.	1.85
Kodak Telek	Negative	1 ¼"-2"	Both	Telephoto attachment of —1, —2, —3, —4 diopter; Series VI, VII, diameters 1 ⅜" and 2" respectively.	3.35 and 4.15
Kodak Portra	Positive	⅝"-2"	Both	Ultra-close-up attachment of +1, +2, and +3 diopters, Series IV, V, VI, and VII, diameters, 1 3/16", 1 ⅝", and 2" respectively.	2.50 to 4.15
Kodak Portra	Positive	In W mount	Slip-on	For movie cameras. Portrait attachment of +1 ¾, +3 ¾ diopter.	4.49
Cine Kodak Close-up attach.	Positive	In Z Mount ⅝"Mount dia.	Slip-on	Close-up attachment for cine lenses of ⅝" outside diameter +¾ diopter.	1.34
Kodak Vuedar Converter 13mm to 9mm	Positive	.....	Screw-in	Optical converter that reduces the 13-mm f/2.7 Kodak Cine Ektanon Lens and 13-mm f/1.9 lens to 9mm effective focal length.	32.50
Kodak Ektar Converter 25mm to 15mm	Positive	.....	Screw-in	An optical accessory that reduces the focal length of the Kodak Cine Ektar Lens, 25-mm f/1.4 to an effective focal length of 15-mm.	80.00
EDNALITE OPTICAL CO					
Portrait Lens	Positive	All sizes	Both	Coated supplementary lens or close-ups, portraits, microphotography, etc.	1.75 to 5.50
ELGEET OPTICAL					
Elgeet Portrait Attach.	Positive	See Col. 5	Screw-in	Portrait attach. for Elgeet ½" cine-lenses; at f/1.9, objects at 2 ½ feet in focus—at f/22, objects at 8 inches in focus.	2.95
Wide Angle Attach.	Positive	See Col. 5	Slip-on	Coated wide-angle attachment for all model 8-mm projectors. Projected image covers 4X area of standard lenses. Screen area ordinarily covered in 20' room, can now be covered in 10' room when using attachment; chrome finish.	On Request
ENTECO INDUSTRIES, Inc.					
Enteco Proxar Plus 1, 2, and 3	Positive	23.5-44.5 mm	See Col. 5	For close-up, copy, and portraiture; coated or uncoated; metal ring mounted; Series IV, V, VI, VII, VIII, IX, and 21.5 mm, 31.5 mm, 39 mm, 51 mm. Fit all standard mounts plus Enteco screw-in, slip-on, and set-screw adapters.	1.35 to 12.00
Enteco Distar Minus 1, 2, 3, 4	Negative	See Col. 5	See Col. 5	For telephoto photography; Series IV, V, VI and VII, and diameters 21.5 mm-51 mm; metal ring mounted.	1.35 to 12.00
Enteco Close-Up, for Stereo Realist	Positive	.....	Slip-on	Close-up lenses for Stereo Realist camera; +1 diopter; matched pairs.	5.50 per set
FOTO-RULE CO.					
Foto-Rule Zuptar	Positive	See Col. 5	Screw-in	Coated close-up attachment of +1, +2, +3 diopter. Series V and VI.	2.35 to 2.85
HEITZ AND LIGHTBURN					
Pignons Close-up	Positive	30-35 mm	Slip-on	Supplementary lens for close-up and copying. 35 mm is coated.	3.90 to 6.90
Diffusion Disc	.....	30-46 mm	Slip-on	Diffusion disk for portraiture.	4.50 to 6.90
E. LEITZ, INC.					
Elpro	Positive	See Col. 5	Screw-in	Coated supplementary lens for close-up work; +1 diopter. For 50-mm Elmar lens only.	12.00
Elpik	Positive	See Col. 5	Screw-in	Same as above; +2 diopter.	13.50
Elpet	Positive	See Col. 5	Screw-in	Same as above; +3 diopter.	16.80
MANSFIELD INDUSTRIES					
Gruenex Telephoto	Negative	See Col. 5	Both	Coated supplementary lens for telephoto work with 8-mm movie cameras. Brings distance of 100 ft. down to apparent 36 feet.	18.86
				Same as above, for 16 mm movie cameras.	22.20
				Same as above, for 35 mm cameras.	22.20
				Same as above, for folding cameras up to 2 ¼x3 ¼.	22.20
				Same as above, for all 2 ¼x2 ¼ reflex cameras.	32.82
Raydex Portrait	Positive	15-150 mm	Both	Coated lens for portrait work. Available in +1, +2, and +3 diopters - for all cameras.	1.25 to 1.50
Raydex Wide-angle	Positive	See Col. 5	Screw-in	Coated auxiliary wide-angle lens for all 8-mm cameras.	17.25
				Same as above. For 16-mm movie cameras.	22.20
				Same as above. For 35-mm cameras.	22.20
				Same as above. For folding cameras up to 2 ¼x3 ¼.	22.20
				Same as above. For all 2 ¼x2 ¼ reflex cameras.	32.82
MORTON COMPANY					
Magni-Far	Negative	See Col. 5	Both	Coated supplementary telephoto lens for all 35-mm cameras with non-interchangeable lens fronts. Halves the apparent distance, with no loss in speed of lens. Available with combination lens shade and filter holder, viewfinder mask, and conversion table.	29.95
Dilitar	Positive	44-105 mm	Slip-on	Coated supplementary wide-angle lens; .7X; 6-element; converts 50-mm lens to 35-mm; 80-mm to 56-mm; double coverage without loss of speed.	59.95
OPTEX CORP.	Positive	19-50.5 mm	Unmounted	Supplementary lens of +1, +2, and +3 diopter, for portrait and close-up photography. For all cameras.	1.00 to 2.00
PHOTOLIX, INC.					
Stereo-Angle lens	Positive	All Ser. V	Both	Corrects for necessary toe-in of stereo camera.	9.95 for set of two.
Angle lens	Positive	All Ser. V	Both	Corrects for parallax displacement of twin-lens reflex cameras.	4.95 for attachment; two lenses.
POLAROID CORP.					
Close-up Lens Kit #540	Positive	30-32 mm	Slip-on	Kit of 3 lenses; +1, +2, +3 diopter; leather case and data tape.	8.95
PONDER & BEST					
PB Portrait	Positive	See Col. 5	See Col. 5	Complete with focusing scale. Sizes to fit PB, Kodak, and HCE lens shades and adapter rings. +1, +2, and +3 diopters.	1.55 to 2.18
SPIRATONE					
Spiratone Portrait	Positive	See Col. 5	Both	Supplementary portrait lens of +1, +2, and +3 diopter. Available in 21.5 mm, and sizes to fit standard Series V, Series VI, and Series VII adapter rings.	0.75 to 1.50
Spiratone Telephoto	Negative	20-42 mm	Both	Coated supplementary telephoto lens for 35-mm and 2 ¼x2 ¼ reflex cameras. Also Polaroid Land. Some models have interchangeable Series V or VI adapters.	16.95
Spiratone Wide-angle	Positive	See Col. 5	Both	Coated supplementary wide-angle lens for 35-mm and 2 ¼x2 ¼ reflex cameras. Also Polaroid Land. Some models have interchangeable Series V or VI adapters.	16.95
TENPLUS	Positive	See Col. 5	Unmounted	Supplementary lens of +10 diopter, for extreme close-up photography. For use with Series V and Series VI adapter rings.	8.00

(Continued)

Manufacturer or Distributor	Type	Fits Lens Mount	Slip-on or Screw-in	Purpose	Price
TIFFEN MFG. CO.					
Tiffen Portrait	Positive	16.5-85 mm	Both	For portrait work; also available with set-screw mount.	1.25 to 3.50
Photar	Positive	See Col. 5	See Col. 5	Coated or non-coated proxar-type portrait lens. Mounted in metal ring for use with adapters of 21.5 mm to Series VII size.	1.35 to 4.50
WOLLENSAK OPTICAL					
Cine Wide-angle Attach.	Positive	See Col. 5	Screw-in	Coated wide-angle attachment for Wollensak 8 and 16-mm cine lenses.	25.88

LAMPS FOR PICTURE TAKING

Manufacturer and Lamp Designation	Wattage or Light Output	Mean Color Temp. (Deg. Kelvin)	Average Life at 115 V. in Hrs.	Rated Lumens at 115 V.	Base** and Burning Position*	Special Characteristics	List Price Each (Less Tax)
General Electric							
G-E Photofloods							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	$0.18
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.33
No. B1	250	4,800 (d)	3	.....	Medium A	Daylight blue, for color photography.	.30
No. B2	500	4,800 (d)	6	.....	Medium A	Same.	.60
No. RFL 2	500	3,400	6	(c)	Medium A	Flood, built-in reflector, 60° controlled beam.	1.15
No. RSP 2	500	3,400	6	50,000 (a)	Medium A	Spot, built-in reflector, 20° beam.	1.30
Medium Beam 375w	375	3,400	4	.....	Medium A	Medium beam—built-in reflector, 40° beam.	1.25
3200 K Lamps							
A-23	250	3,200	20	.....	Medium A		.40
PS-25	500	3,200	60	.....	Medium A		.70
T-20	500	3,200	30	.....	Medium C	For color photography with film color-balanced for 3200K.	2.95
T-20	500	3,200	30	.....	Med. Pf. C		3.20
T-20	500	3,200	35	.....	Med. Bi. C		4.25
Spotlight Lamps							
T-10	200	.....	.....	.....	Bay. Cd.	Clear.	2.90
G-30	400	.....	.....	.....	Medium	Clear; also available in photo blue.	1.90
G-30	400	.....	.....	.....	Med. Pf.	Clear; also available in photo blue.	2.15
Miscel. Lamps							
T-20	500	.....	.....	.....	Medium	Small lamp with powerful light. Recommended for home portraiture, etc.	2.75
T-20	500	.....	.....	.....	Med. Pf.		2.75
PS-40	500	.....	.....	.....	Mogul	Clear. For general lighting.	.95
Radiant Lamp Corp.							
Spotlight Lamps				Rated Lumens			
A21	100	.....	200	1,400	Medium B	Light center length, 3", over-all length, 4 7/16".	1.05
G16½	100	.....	200	1,600	Bay. Cd. C	Light center length, 1 3/8"; over-all length, 3".	1.00
G30	250	.....	200	4,400	Medium D	Light center length, 3"; over-all length, 5 1/8".	1.40
G30	250	.....	200	4,400	Med. Pf. D	Light center length, 2 3/16"; over-all length, 5 3/8".	1.65
T12	250	.....	200	4,400	Med. P.S. B	Light center length, 3½"; over-all length, 5 3/4".	4.50
T20	250	.....	200	4,400	Med. Pf. C	Light center length, 2 3/16"; over-all length, 5 3/4".	4.00
T20	250	.....	200	4,400	Medium C	Light center length, 3"; over-all length, 5½".	3.35
G30	400	.....	200	8,000	Medium D	Light center length, 3"; over-all length, 5 1/8".	1.90
G30	400	.....	200	8,000	Med. Pf. D	Light center length, 2 3/16"; over-all length, 5 3/8".	2.15
G40	500	.....	200	10,200	Mogul D	Light center length, 4¼"; over-all length, 7 1/16".	2.80
T12	500	.....	200	10,250	Med. P.S. B	Light center length, 3½"; over-all length, 5 3/4".	6.50
T20	500	.....	200	10,250	Med. Pf. C	Light center length, 2 3/16"; over-all length, 5 3/4".	3.40
T20	500	.....	500	9,500	Med. Pf. C	Light center length, 2 3/16"; over-all length, 5 3/4".	3.50
T14	500	.....	200	.....	Med. Bip. D	Light center length 4"; over-all length, 6 3/8".	5.75
T12	750	.....	200	15,750	Med. P.S. D	Light center length 3½"; over-all length, 5 3/4".	7.00
T20	750	.....	500	15,450	Med. Pf. C	Light center length, 2 3/16"; over-all length, 5 3/4".	5.00
Floodlamps							
G30	250	.....	800	3,750	Medium D	Light center length, 3"; over-all length, 5 1/8".	1.40
G30	250	.....	800	3,750	Med. Pf. D	Light center length, 2 3/16", over-all length, 5 3/8".	1.65
G30	400	.....	800	6,600	Medium D	Light center length, 3"; over-all length, 5 1/8".	2.15
G30	400	.....	800	6,600	Med. Pf. D	Light center length, 2 3/16"; over-all length, 5 3/8".	2.90
G40	500	.....	800	8,800	Mogul D	Light center length, 4¼"; over-all length, 7 1/16".	2.55
T20	500	.....	800	8,500	Med. Pf. C	Light center length, 2 3/16", over-all length, 5 3/4".	3.40
T12	500	.....	800	8,700	Med. P.S. B	Light center length, 3½"; over-all length, 5 3/4".	6.50
Sheldon Electric Co.							
Photoflood RFL2	500	3,400	6	17,000	Medium A	Flood, built-in reflector, 60° beam.	1.05
Photospot RSP2	500	2,400	6	50,000	Medium A	Spot, built-in reflector, 30° beam.	1.20
Solar Electric Corp.							
Solar Photofloods							
No. 1	250	3,400	3	8,650	Medium A	High intensity light source; use with reflector.	.18
No. 2	500	3,400	6	17,000	Medium A	Same, with double intensity of No. 1.	.33
No. RFL2	500	3,400	1	4,500	Medium A	Flood, built-in reflector, 30° beam.	1.15
No. RSP2	500	3,400	1	50,000	Medium A	Spot, built-in reflector.	1.30
No. 375W Med. Beam	375	3,400	4	.....	Medium A	40° Med. beam; built-in reflect r.	1.25
Sylvania Electric							
Sylvania Superflood							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	.18
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.33
No. 4	1,000	3,400	10	33,500	Mogul A	Equiv. to 2500 watts standard lighting.	1.20
No. R2	500	3,400	6	.....	Medium A	Reflectorflood, 30° beam; built-in reflector.	1.30
No. R-32	375	3,200	15	9,600(a)	Medium A	Reflector flood, 25° beam, long life.	1.85
No. R-34	375	3,400	4	10,400(a)	Medium A	Reflector flood, 25° beam, greater beam output.	1.25
No. B1	250	4,800 (d)	3	5,600	Medium A	Made of daylight blue filter glass; for use with daylight-type color film and black-and-white.	.34
No. B2	500	4,800 (d)	6	11,000	Medium A		.68
No. B4	1,000	4,800	10	21,800	Mogul A	Same note as B1 and B2.	1.75
Westinghouse							
W Photoflood Lamps							
No. 1	250	3,400	3	8,650	Medium A	High intensity light source, use with a reflector.	.18
No. 2	500	3,400	6	17,000	Medium A	Same, with double the intensity of No. 1.	.33
No. B1	250	4,800	3	5,600	Medium A	Blue bulb fill-in light to supplement daylight.	.30
No. B2	500	4,800	6	11,000	Medium A	Same, double the intensity of the B1.	.60
No. 300 R 30	300	3,400	4	.....	Medium A	New small size medium beam.	1.25
No. 375 34/R4	375	3,400	4	.....	Medium A	Compact flood, built-in reflector 40° medium beam.	1.25
No. RFL2	500	3,400	6	4,500	Medium A	Compact flood, built-in reflector 60° controlled beam.	1.15
No. RSP2	500	3,400	6	(a)	Medium A	Compact spot, built-in reflector 20° controlled beam.	1.30
3200K Lamps							
PS25	500	3,200	60	.....	Medium A		.70
T20	500	3,200	30	.....	Medium C	For color photography with color film balanced for 3200K.	2.95
T20	500	3,200	30	.....	Med. Pf. C		3.20
T20	500	3,200	35	.....	Med. Bi. C		4.25

NOTES **Bases are screw type unless otherwise indicated. Abbreviations are as follows: Bi.—Bipost; Bay.—Bayonet; Cd.—Candelabra; Pf.—Prefocus; P.S.—Prefocus Skirted.

*Burning Positions:
A. Will burn in any position.
B. Base up burning.
C. Base down burning.
D. Any position from vertical base down to horizontal.
E. Any position except within 45° of vertical base up.

a. Approximate Beam Candlepower.
b. Not designed for life, but for a mean color temperature of 3200 Kelvin.
c. Light concentrated in photo-effective zone. Equivalent to a No. 2 Photoflood in good reflector.
d. Intended to supplement daylight.

FLASHBULBS

Bulb Designation	Voltage Required to Fire Bulb*	Light Output In Lumen Seconds†	Duration At ½ Peak In Milliseconds (Approx.)	Time to Peak In Milliseconds (Approx.) And Class**	Mean Color Temp. Degrees Kelvin (Approx.)	Special Characteristics, Uses, Etc.	Price Each (Less Tax)
Dura Flash							
SM Instant Flash	3	5,000	7	5-F	3300K	Gas-filled. Bayonet base. Battery use only. Provides quick-freeze flash.	$0.14
No. 5 Press Flash	3	16,000	13	20-M	3800K	Bayonet base. All purpose lamp. Battery use only.	.13
No. 5A Press Flash	3	11,000	13	20-M	3200K	Same as above, but coated amber for use with tungsten type color film.	.17
No. 5B Press Flash	3	7,000	13	20-M	6000K	Same as No. 5 but coated blue for use with daylight type color film.	.17
No. 5R Infrared	3	.....	13	20-M	Infrared	Bayonet base, midget. Special infrared coating which absorbs the blue and red visible light allowing only infrared radiation. Used with infrared film without filters.	.22
No. 6 Focal Plane	3	12,000	30	FP	3800K	Bayonet base, midget size, for use with smaller cameras having focal plane shutters.	.15
No. 6A Focal Plane	3	8,000	30	FP	3200K	Same as above but coated amber for use with tungsten type color film.	.19
No. 6B Focal Plane	3	5,000	30	FP	6000K	Same as No. 6 but coated blue for use with daylight type color film.	.19
No. 11 Press Flash	3	28,000	12	20-M	3800K	Medium base all-purpose lamp for accurate synchronization.	.15
No. 11A Press Flash	3	23,000	12	20-M	3200K	Same as above but coated amber for use with tungsten color film.	.19
No. 11B Press Flash	3	14,000	12	20-M	6000K	Same as No. 11 but coated blue for use with daylight type color film.	.19
No. 11R Infrared	3	.....	12	20-M	Infrared	Medium base similar to No. 11 specially coated for infrared radiation.	.30
No. 22 Press Flash	3 to 125	65,000	14	20-M	3800K	Medium base all-purpose lamp similar to No. 11 but greater power.	.17
No. 22A Press Flash	3 to 125	60,000	14	20-M	3200K	Same as above, but coated amber for use with tungsten type color film.	.23
No. 22B Press Flash	3 to 125	28,000	14	20-M	6000K	Same as No. 22 but coated blue for use with daylight type color film.	.23
No. 22R Infrared	3 to 125	.....	14	20-M	Infrared	Medium base similar to No. 22 Power, specially coated for infrared radiation.	.34
No. 31 Focal Plane	3	77,000	53	FP	3800K	Powerful medium base lamp for high shutter speed synchronization, or for use with focal plane shutters.	.24
No. 50 Pro-Flash	3 to 125	94,000	17	30-S	3800K	Powerful medium base lamp for ballroom and industrial photography.	.22
No. 50A Pro-Flash	3 to 125	89,000	17	30-S	3200K	Same as above but coated with amber for use with tungsten type color film.	.28
No. 50B Pro-Flash	3 to 125	43,000	17	30-S	6000K	Same as No. 50 but coated with blue for use with daylight type color film.	.28
General Electric Photoflash Lamps							
Speed Midget "SM"	3	4,700	7	6-F	3300	Quick flash for all-around near-distance pictures in proper reflectors. Bayonet base. Battery use only.	.14
Synchro-Press No. 5	3	16,000	13	21-M	3800	For all-around pictures in proper reflectors. Ideal for between-the-lens shutters. Bayonet base.	.13
Synchro-Press No. 5B	3	7,000	13	21-M	6000	Same as No. 5 with blue-filter coating for correct color rendition with daylight-type color film.	.17
Focal Plane No. 6	3	15,500	30	FP	3800	For synchronization with most focal-plane shutters. Midget size, bayonet base. Battery use only.	.15
Synchro-Press No. 11	3	29,000	12	21-M	3800	General purpose lamp for accurate synchronization and open flash; for press and amateur use.	.15
Synchro-Press No. 22B	3 to 125	27,000	14	21-M	6000	Same as No. 22 with blue coating for use with daylight-type color film and fill-in for daylight color shots.	.23
Synchro-Press No. 22	3 to 125	63,000	14	21-M	3800	General purpose of greater power than No. 11. Medium-broad peak allows for errors in synch.; for high-speed shots.	.17
Focal Plane No. 31	3	77,000	53	FP	3800	For high shutter speed synch.; with focal-plane shutters. Longer duration than No. 6. Battery flashing only.	.24
Photoflash No. 50	3 to 125	95,000	17	30-S	3800	Great light intensity to cover large areas and for exposure at small lens aperture.	.22
Photoflash No. 50B	3 to 125	43,000	17	30-S	6000	Same as No. 50, but with blue coating for use with daylight color emulsions.	.28
Solar Electric Photoflasn Lamps							
SM	3	5,000	7	5-F	3300K	Gas-filled speed midget. Bayonet base. Battery use only. Provides quick-freeze flash.	.14
No. 5	3	16,000	13	20-F	3800K	Precise, uniform flash makes it ideal for use with between-the-lens shutters.	.13
No. 5B	3	7,000	13	20-F	3800K	Same as above, but coated blue for use with Daylight Type color film.	17
No. 11	3	28,000	12	20-F	3800K	Accurately timed peak intensity. General all-purpose flash lamp. Long flash duration.	.15
No. 22	3 to 125	62,000	14	20-F	3800K	Powerful flash lamp designed for use where maximum coverage is required. High peak intensity.	.17
No. 22B	3 to 125	27,000	14	20-F	3800K	Same as above, but coated blue for use with Daylight Type color film.	.23
Sylvania Superflash							
SF (Speed Flash)	3 to 9	5,000	5	6-F	3300	Quick-freeze flash equivalent to 1/100 sec. shutter speed even with open flash. Gas filled; bayonet base. Battery use only.	14
Press 25	3 to 9	20,000	14	20-M	3800	Midget lamp for synchronization with between-the-lens shutters; bayonet base. Battery use only.	.13
No. FP-26	3 to 9	15,000	24	FP	3800	For focal-plane shutters only; for use with cameras up to 2¼x 3¼. Bayonet base. Use in midget-lamp reflector. Battery use only.	.15
No. 0	3 to 9	20,000	14	20-M	3800	Baby size flash, medium base, for general amateur use; wide-peak flash for synchronized use. Battery use only.	15
Press 40	3 to 9	30,000	17	20-M	3800	For press use; long peak for high-speed synchronization; can be used with many focal-plane minicameras. Battery use only.	.15
No. 2	3 to 125	62,000	18	20-M	3800	High-powered lamp recommended for synch. with all compur or between-the-lens shutters, some focal-plane.	.17
No. 2A	3 to 9	77,000	64	FP	3800	For focal-plane shutters only; for synch. up to 1/1000 sec Battery use only. Two lamps in twin package.	.24
No 3	3 to 125	110,000	18	30-S	3800	Powerful lamp for covering large areas; synch. recommended at speeds up to 1/100 second.	.22
No. 25B	3 to 9	8,000	14	20-M	6000	Blue midget for use with daylight-type color films. Bayonet base; for use with battery only.	17
No. 40B	3 to 9	14,000	17	20-M	6000	Same as Press 40. Designed for use with daylight-type color films. Battery use only.	.19
No. 2B	3 to 125	28,000	18	20-M	6000	Same bulb size as No. 2; for use with daylight-type color films. Packed two to twin wrapper. Blue lamp.	.23

* In the interest of safety, bulbs designed for firing with 3 to 9 volts should not be ignited with regular house current.

† Lumen second values for all G-E bulbs are determined in accordance with a new method established by ASA and differ from previously published ratings. There is no change in lamps or light output.

** Approximate time to peak in milliseconds for designated classes of lamps are: Class F—5 milliseconds; Class M—20 milliseconds; Class S—30 or more milliseconds; Class FP—for focal-plane shutters; long, level peak.

(Continued)

This picture was taken outdoors in the rain with one Press 25 Superflash, hand held high and to the left of subject, with Super XX film, 1/400 second at f/22.

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You don't have to be an expert to see that this picture was taken under tough conditions. It was raining. A grey sky gave little natural light. The photographer had to shoot through a plate glass window into a dimly lighted room. He needed plenty of light at the split second he released his shutter. Superflash® gave it.

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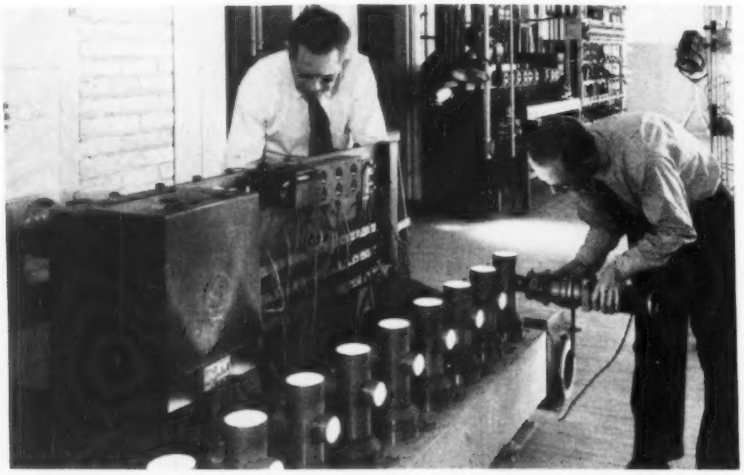
(Continued)

Bulb Designation	Voltage Required to Fire Bulb*	Light Output In Lumen Seconds†	Duration At ½ Peak In Milliseconds (Approx.)	Time to Peak in Milliseconds (Approx.) And Class**	Mean Color Temp. Degrees Kelvin (Approx.)	Special Characteristics, Uses, Etc.	Price Each (Less Tax)
No. 3B	3 to 125	50,000	18	30-S	6000	Blue lamp same size as No. 3; for use with daylight-type color films.	.28
Westinghouse Photoflash Lamps							
Speed Midget SM	3	5,500	7	5-F	3300	Extremely fast peak, gas filled; bayonet base, for front shutter cameras.	.14
Synchro-Press No. 5	3	16,000	13	20-M	3800	The "peanut" bulb, bayonet base; for synchronized shots with front shutter cameras.	.13
Synchro-Press No. 5B	3	7,000	13	20-M	6000	Similar to No. 5 with blue filter coating. Gives correct color balance for daylight color film.	.17
Synchro-Press No. 11	3	28,000	12	20-M	3800	General purpose lamp for use with front shutter cameras.	.15
Synchro-Press No. 22	3 to 125	62,000	14	20-M	3800	Same as No. 11 but of greater power. May be flashed on house current.	.17
Synchro-Press No. 22B	3 to 125	27,000	14	20-M	6000	No. 22 with blue filter coating gives correct color balance for daylight color film.	.23
Focal Plane No. 6	3	15,000	30	FP	3800	Small bulb, bayonet base; for use with focal plane shutters in smaller cameras.	.15
Focal Plane No. 31	3	77,000	53	FP	3800	Screw base; powerful bulb for all focal plane shutter cameras.	.24
Photoflash No. 50	3 to 125	94,000	17	30-S	3800	Powerful lamp; for banquet and large area shots.	.22
Photoflash No. 50B	3 to 125	43,000	17	30-S	6000	Same as No. 50 with blue filter coating, gives correct color balance for daylight film.	.28



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LIGHT FILTERS

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
ACRA INSTRUMENTS DIV. Pacific Universal Products Acra-coted	19-51mm	.....	Round and special shapes; dyed film between glass; coated optical glass; mounted in metal rings. Colors: K-2, yellow; G, orange; 23-A and 25-A, red; X-2, green; 2A, haze. Conversion filters: Type A85, Photoflood No. 80, and Ansco Nos. 10, 11, and 12. Compensating filters: CC13, 14, and 15. Ultra violet filters: CC95 (Ektachrome); UV15, UV16, and UV17 (Ansco Color).	$1.95-3.45	
ANSCO					
Ansco Color Film Filters	19-51mm	.....	Round; gelatin between glass; mounted; Conversion No. 10 for exposing daylight-type Ansco Color film under 3200K, Conversion No. 11 for exposing tungsten-type Ansco Color film under daylight. Ultra violet absorbing UV16 and UV17.	2.10-4.00	
Glass Mounted Filters	20.3-23.3 mm	Slip-on	Round; gelatin between glass; Colors: Yellow, light, medium, dark; green, and red.	2.25-2.50	
Color Film Filter Foils	2x2"-4x4"	.....	Square; for use over camera lens when exposing Ansco Color film. Color Compensating filters: Yellow, Nos. 23, 24, 25, 26; Magenta Nos. 33, 34, 35; Cyan Nos. 43, 44, 45; Conversion filters No. 10 and 11 used as detailed above, and No. 12 for exposing tungsten-type Ansco Color film under electronic flash; Ultra violet absorbing filters UV15, UV16, UV17. Sets containing 11 filters available.		$ .66-2.62
AREL, INC. Kent Filter Kits	19-35 mm	Screw-in	Round; optical glass, lens shade combination; for various Eastman, Bell & Howell, Revere, and Keystone movie cameras; Argus and Mercury still cameras. Colors: yellow, green, red, haze. Type A, Chrome Flash, and blue. Kit has 6 filters, and lens shade.	5.95-9.95	
BELL & HOWELL CO. B & H	12.5-37.5 mm	Screw-in	Round; optical glass; for B&H lenses: 12½mm f 3.5 Anate, 12½mm f 2.5 Mytal, 12½mm f 2.5 Anate, 12½mm f 2.5 Anart, 0.5" f 2.8 Anate, 0.5" f 2.5 Comat, 0.5" f 1.9 Super Comat, 0.5" f 1.4 Ivotal, 17mm f 2.7 Ansix, 0.7" f 2.5 Super Comat, 1" f 3.5 TTH, 1" f 2.7 TTH, 1" f 2.7 Ansix, 1" f 2.5 Ansix, 1" f 2.5 Comat, 1" f 1.9 Datal, 1" f 1.9 Lumax, 1" f 1.9 (T-2.1) Super Comat, 1" f 1.5 Kinic, 1.5" f 3.5 Telate, 0.5" f 1.9, 1" f 1.9 Super Comat, 1.5" f 3.5 Comat. Colors: Yellow, Kodachrome Type A, Kodachrome Haze.	5.95-6.95	
LOU BERTZ Addacolor	2x2"-2¼x2¼"	See Col. 4	Gelatin squares added as a permanent part of glass or readymount mount for transparencies. Colors: Yellow, Cyan, Magenta, Red, Green, Blue. Used as color correcting filters for color slides AFTER processing. Packed in sets of 24, four each of six colors.		.65-.95
C. A. BIRCH-FIELD LAB. Varisco A Variable Contrast	⅝-1 inch	.....	Round; gelatin on acetate film; for contrast control of Varigam paper; placed between the lens in enlarger. Colors: Yellow, Red, Purple. Proportions of colors varied by adjustment of lens diaphragm.		3.00
BURLEIGH BROOKS CO. Optochrom	19-58 mm	Slip-on	Round; dyed optical glass. Colors: Yellow, extra light, light, medium, dark; Yellow-Green, light, medium; Ultra Violet; Blue; Red; Reform (sky, expiration).	2.40-11.25	
Optochrom Filter Sets	25-42 mm	.....	Filters in filter holder, slip-on, or special mounts. Set A (one each) Yellow, light, medium, Ultra Violet. Set B (one each) Yellow Green, light, medium, Blue. Set C (one each) Yellow, medium, Yellow Green, light, Red. Prices on request.		
CURTIS LABORATORIES, INC. Curtis Color Balance	19-52 mm 2x2"-3x3"	.....	Round and square; gelatin between optical glass; for sensitometric correction to color film where needed; not designed for use as color compensating filters.		5.00-9.00
DEJUR-AMSCO CORP. DeJur-Wollensak	13-38 mm	Screw-in	Round; optical glass; for Wollensak lenses on DeJur cine cameras. Colors: Haze; Kodachrome Type A; Yellow, 2X, Red, 6X. Mounted in built-in lens shade.	3.45	2.80
	9 mm	Screw-in	Same as above, for 9 mm wide-angle lenses.	4.05-4.60	3.95-4.50
E. I. DU PONT DE NEMOURS "Varigam"	2x2"	Card	For contrast control of "Varigam" paper; square gelatin; 10 colors ranging from yellow through yellow-blue mixtures to blue. Set 5A (1, 3, 5, 7, 10); Set 5B (2, 4, 6, 8, 9) and Set 10C (all); sets include special metal universal filter holder.	Single 3.03-5.23	
EAGLE PHOTO SUPPLY Eagle Ray	1⅛"-4½"	Slip-on	Round, medium rapid filter; requires 3 times normal exposure; corrected to admit all the bright visual colors and the more chemically active colors.	1.65-8.55	
Royal Ray	1 5/16"-4½"	Slip-on	As above; requires 8 times increase of exposure.	1.65-8.55	
Royal Foreground Ray Style A	⅞"-4½"	Slip-on	Round; graduated from strong Orange-Yellow to transparent; for use as Sky filter and also in photographing objects more strongly lit on one side than on the other.	2.00-8.00	
Style B	1 5/16"-3"	Slip-on	As above; mounted in sliding oblong frame so as to bring any desired depth of color in front of the lens.	1.50-3.75	
EASTMAN KODAK CO. Wratten Light Filters	⅝"-5"	Slip-on, screw-in, or unmounted	Lacquered gelatin, gelatin cemented in "B" glass or in "A" glass, round or square. Over 100 types, including: Yellow, K2, G; Yellow-Green, X1; Green, B; Blue, C5; Red, A; Color-Separation; Neutral Density; etc.		
Kodak Skylight Filter (Wratten No. 1A)	⅝"-3¼" 2x2", 3x3"	Slip-on, screw-in, or unmounted	Used with daylight-type color films for improved rendering in open shade or other bluish daylight conditions.		
Kodak Light Balancing Filters (Wratten No. 81-81G, 82-82C)	1⅝"-2" 2x2", 3x3"	Slip-on or unmounted	Eight Yellowish (No. 81 series) and 4 Bluish (No. 82 series) for exposing artificial-light color films. Effective color temperature lowered or raised, respectively, in steps of about 100 K.		
Kodak Color Compensating Filters	1⅝"-2" 2x2", 3x3"	Slip-on or unmounted	Used for color balance and light source correction with color films. Yellow, Magenta, Cyan, Red, Green, and Blue series of six filters each, densities .05, .10, .20, .30, .40, and .50.		
EDNALITE OPTICAL CO., INC. Chess-United	All still & movie	See Col. 4	Round; optical glass; chrome finish mount; available for slip-on, screw-in, and special mounts; lens shade combination. Colors: Yellow, light, medium, dark; Yellow-Orange; Red, light, medium, dark; dark Infra Red; Chrome Skylight; Chrome A; ChromeBlue; ChromeFlash; Green, light, medium; Neutral, light, medium.	2.55-3.75	1.50-3.10
Chess-United Educational Filter Kits	See Col. 4	See Col. 4	Contains lens shade, 2-compartment case, light yellow, and light green filters, —1 diopter portrait lens. For most popular cameras.	4.95	
EdnaLite	All still & movie	See Col. 4	Round; optical glass coated on both sides; series filters mounted in shock-proof rim; available for slip-on, screw-in, and special mounts for Stereo Realist and Contessa cameras; lens shade combination. Same colors available as the Chess-United filters; also UV16, UV17, Conversion No. 10 and No. 11, CTY 81, 81A, 81B, CTB 82, 82A, 82B, 82C.		1.75-5.50
EdnaLite Cine Filter Turret	Movie cameras	See Col. 4	Combination 5-position filter turret and lens shade; round; coated optical glass. Colors: ChromeA; ChromeBlue; ChromeHaze; Yellow, medium, Red, medium.	13.50	
ENTECO INDUSTRIES, INC. Enteco Light Filters	16-76 mm	See Col. 4	Round; optical glass; dye between "B" glass or in "A" glass; dural mounted in Series sizes IV, V, VI, VII, VIII, IX. Fit in all standard mounts plus Enteco screw-in, slip-on and set-screw adapters. Colors: Yellow, light, medium; Red; Green, light, medium; Orange; Haze; Skylight; Photoflood; Infrared; Neutral Density 2X, 4X; 85B; Ultra Violet 2B; Light Balancing No. 81, No. 81A, No. 81B, No. 81C, No. 81D, No. 81EF; Polarizing; Type A; Conversion, 10, 11, 12; UV15, UV16, UV17.	1.60-9.75	
Enteco Thin Filters	16-84 mm	See Col. 4	Round; optical glass; mounted in sizes from 16 mm to 84 mm in same colors and to fit same mounts as above.	1.35-3.25	

(Continued)

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
Enteco Filter Kits	See Col. 4	See Col. 4	Kits of four filters, for black-and-white or color; coated or uncoated. In sizes for Series IV, V, VI, VII, VIII, IX, and 21.5, 31.5, 39, and 51 mm.	2.45-12.25	
Enteco Tri-Filter Kit for Stereo Realist	See Col. 4	See Col. 4	Three pairs of filters (Type A, Skylight, 81C) for Stereo Realist Camera, in leather wallet.	Depends on type selected	
Enteco Mono-Filter Kit for Stereo Realist	See Col. 4	See Col. 4	One set of any color or type for Stereo Realist Camera.	Depends on type selected	
GALLINGER BROS., INC. G. B. Filters	31.5-19 mm	.....	Round and square; optical glass; round filters mounted in rings. Colors: Yellow, light, medium; Red; Green; Orange; Haze; Blue. Available in leather-cased set of 4.	1.25-1.50	.80-2.00
GENERAL PHOTO SUPPLY CO. Photax	1 3/16"-1 3/8"	See Col. 4	Round; optical glass; metal bound. Colors: Yellow, light, med., med. dark, dark; Red; Green; Orange; Type A; Blue; Haze; ChromeFlash.	1.75-2.00	
C. P. GOERZ AMERICAN OPTICAL Panortho	21-61 mm	Slip-on	Round; optical glass; lens shade combination; mounted filters up to 42mm; unmounted up to 61mm; any color set acceptable for selection. Colors: Pale Yellow, U.V.; Yellow, POI, POII; Green, POI, POII; Blue (compensating); Red (contrast); Orange. Desired combination obtained by stacking the individual cells.	2.50-3.75	1.50-7.50
HARRISON AND HARRISON Duraline					
Black & White	19-52 mm	.....	Optical glass laminated together with cementing materials which carry the color; metal bound; in all standard sizes.		1.70-4.65
Neutral Density Filters	19-52 mm	.....	In standard transmissions from 55% to 1% of light.		2.10-4.65
Diffusion Filters	19-52 mm	.....	In 5 gradations of soft focus from distant to head close-ups.		3.14-6.27
Varigam Filters (Glass)	19-52 mm	.....	Laminated as above in 10 gradations of print contrast, from V-1 to V-10.		2.25-4.65
Light Corrector Discs (for Color) Coralites and Blues	19-52 mm	.....	Laminated as above in 11 Coralite steps and 11 Blue steps for use in raising or lowering color temperature of light to balance with color temperature of color film, also for daylight use of indoor film and vice versa.		2.25-4.65
Film Convertor Filters	19-52 mm	.....	For use where color film or processing does not balance to a rated color temperature; available in 5 gradations of Yellow, Magenta and Cyan.		2.25-4.65
Graduate Filters	19-52 mm	.....	For control of sky over foreground; combining any 2 colors or any color to clear or neutral density to clear for color or black-and-white film. (All filters listed in all standard round sizes and 2" and 3" squares.)		3.14-6.27
HEITZ & LIGHTBURN Pignons	30-46 mm	Slip-on	Round; optical glass; designed for Alpa Reflex camera and its interchangeable lenses. Colors: Yellow, light, medium, and dark; Orange, light, medium, dark; Green, medium; Yellow Green; Ultraviolet, light, strong; Blue, light; Red, light, medium; Polarizing.	2.85-6.90	
KIN-O-LUX, INC. Marks Polarator	19-42 mm	Screw-in	Neutral polar screen to eliminate unwanted glare and reflection; lens shade combination.	5.95-6.95	
	15 mm	Slip-on	Same as above; for movie cameras; lens shade combination.	3.75	
E. LEITZ, INC. Leica	34 mm	Slip-on	Round; optical glass; for 28mm, 35mm, and 50-mm Hektor, Elmar, and Summar lenses; all 90 mm, 127, and 135-mm lenses. Colors: Yellow 1, 2; Green 1; Orange-Red; Infra-Red 1, 2, 3; Kodachrome Skylight; Kodachrome Type A; Kodachrome Photoflood; and Chrome Flash.	6.66-7.44	
	50 mm	Screw-in	Same as above.	6.24-6.66	
	28-135 mm	Slip-on	Round; optical glass; polarizing filters; black mount; filter rotates in collar which pivots on clamping ring. Adapters for above filters to fit Rolleiflex-Rolleicord and Contax cameras.	27.36-29.07 3.60	
MANSFIELD INDUSTRIES Raydex	17-150 mm	.....	Round; optical glass; lens shade combination. Colors: Yellow, light, medium, dark; Red; Green; Orange, light, medium, dark; Type A conversion; Haze; Kod. Blue; Chrome Flash. Available in kits for various miniature and movie cameras.	1.75-2.75	.85-2.25
MILLER OUTCALT Mil-O	19-50.5 mm	.....	Round; optical glass; metal bound. Colors: Yellow, medium; Red, light, medium; Green, light; Orange; Haze; Mil-O Nos. 10, 11 (Ansco) UV15, UV16, UV17; Type A Conversion; Blue; 2A; CC13; CC95; CC15.	1.50-3.25	
OPTEX CORP. Optex	27-55 mm	.....	Optical glass; beveled. Colors: Yellow, light, medium, dark; Green, light, medium; Orange; Red, light, medium; U.V. Sets of above and sets for tricolor work available. Prices on request.	1.00-3.50	
PHOTO RESEARCH CORP. Spectra CT (color temperature) and GC (green correction).	See Col. 4	See Col. 4	Color correcting filters; gelatin between optical glass; coated. Colors: Turquoise, 6 filters from T1 to T6; Salmon, 6 filters from S1 to S6; Green, 3 filters from G1 to G3; Magenta, 3 filters from M1 to M3. Mounted in metal anodized in matching colors. From Ser. V to Ser. VIII, and 2x2 and 3x3 inch squares. Complete set of 18 filters.	2.75 8.00	
PIONEER SCIENTIFIC Polaroid	See Col. 4	See Col. 4	Round; acetate between glass; designed to fit most 8mm and 16mm movie cameras, and still miniature cameras; neutral and yellow polarizing; mounted in lens shade on which is indicated the axis of the filter and 180° scale marking; 22 different sizes.	5.28-6.12	

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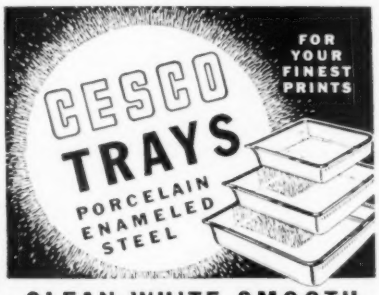

CLEAN-WHITE-SMOOTH
COLUMBIAN ENAMELING & STAMPING CO., Inc., Terre Haute, Indiana

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
	19-52 mm	Unmounted	Round; acetate between glass. Neutral and yellow Polarizing filters. In Series V, VI, VII, VIII; also in 2.2-mm thickness, from 21.5 to 51-mm.		5.28-13.50
POLAROID CORP.					
Filter Kit #541	30-32 mm	Slip-on	Set of 3 filters specially adapted to Polaroid Land camera, and others of same diameter lens mount, satin aluminum finish. Colors: Yellow; neutral density; polarizing filter.		5.95
PONDER & BEST					
PB Filters	19-50.5 mm	.....	Round; optical glass; polished edges; lens shade combination; fits Series V, VI, VII, adapter rings. Colors: Yellow; Orange; Red; Green; Haze.		1.95-4.15
PB Conversion Filters	19-50.5 mm	.....	Round; gelatin between glass; lens shade combination; same size as above. C4 (Kodachrome Type A to Daylight); UV2 (Kodachrome Type B and Ansco Color Tungsten with flash), C5 (Tungsten to Daylight), B2 (for Flash), B4 (for Flood).		1.75-2.95
PB Filter Kits	See Col. 4	.....	Ten kits available for Argus A, C-2, C-3, Argoflex, Kodak Bantam; Kodak 35; Mercury II; Leica; Perfex; kit includes lens shade and filter holder; Yellow, medium; Red, medium; Haze; Type A conversion.	8.95	
PB Movie Kits	.....	.....	Ten kits available for various 8 and 16mm cameras; kit includes lens shade, filter holder, Haze and Type A conversion filters, and pouch.	4.95	
PB Colorfilm Kits	19-31.5 mm	.....	Nine kits containing lens shade and filter holder (Series V, and 31.5 filters) Haze and Type A filters, filter pouch. For same cameras as the PB Filter Kit.	5.50	
SEARS, ROEBUCK & CO.					
Tower	19-42 mm	.....	Round; optical glass; lens shade combination. Colors: Yellow, medium; Orange; Red.	1.95	
SPIRATONE					
Spiratone	21.5-51 mm	See Col. 4	Round; optical glass. Colors: Yellow, medium; Green, medium; Orange; Red, medium; Blue Photoflood; Type A; Haze, UV16, UV17; Skylight; No. 81D.	1.00-1.25	.75
	21.5-51 mm	.....	Polarizing Neutral.	2.00-3.98	
TIFFEN MFG. CO.					
Cine and Mini Mounted Filters	See Col. 4	See Col. 4	Round; dye between optical glass; slip-on and screw-in mounts for all movie cameras, movie lenses, and miniature cameras. Colors: Yellow, medium; Red, light; Green, light; Orange; Type A; Blue Photoflood.	2.40	
Photar	See Col. 4	See Col. 4	Round; dye between optical glass; slip-on, screw-in, lens shade combination and bayonet mounts. For all cameras and lenses. Colors: Yellow, light, medium; Red light; Green, light; Orange; Haze, No. 1, No. 2-A; Type A; Blue Photoflood Conversion filters: 10, 11, 12, UV15, UV16, UV17; CC13, CC14, CC15, CC95. Daylight Flash 2-B. Available coated and uncoated. Filter kits also available.	1.35-10.00	
U. D. A.					
Cloud-on Filters	See Col. 4	Stick-on	Round, plastic stick-on mounts; two sizes, 1 1/16 and 1 3/8 inches. Colors: Red; Yellow; Green, all medium density.		.50
ATS Filters	See Col. 4	Stick-on	Same as above; conversion type for using Type B Kodachrome outdoors.		1.35
WOLLENSAK OPTICAL CO.					
Wollensak Color Filters	See Col. 4	Screw-in	Round, optical glass; to fit all 8 and 16mm Wollensak Cine lenses. Colors: Yellow, 2X, 4X; Red; Haze; Neutral Density; Type A daylight filter for Kodachrome.	2.59-6.95	

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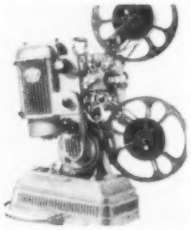
MOVIE PROJECTORS

AMPRO FUTURIST

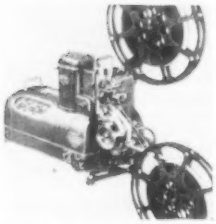
8 mm; silent; 400 feet capacity; line voltage 115, a-c, d-c; 50-60 cycles; 500 or 750-watt pre-focus lamp; direct lighting; separate light switch; 3/4- or 1-inch f/1.6 coated Simpson lens; helical focusing; combination gear and belt drive; mechanical disk and wheel variable speed control, with single knob regulating all forward and reverse speeds, and single-frame projection; rotary disk shutter; constant-speed fan cooling; sealed lubrication; film snubbers; reverse; motor rewind; tilting device; built-in case; weight with case, 13½ lbs. Price, $185.

AMPRO IMPERIAL



16 mm; silent 400 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750 or 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens; combination gear and belt drive; rheostat control; barrel shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection device; swing-out gate; 3-tooth claw. Price, $219.50; case, $19.50.

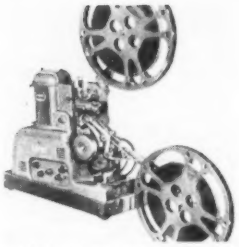
AMPROSOUND PREMIER-30



16 mm; sound and silent; 2000 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750 or 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens; helical focusing; 1 to 4-inch lenses available; belt drive; governor speed control; 16 and 24 frames per second; barrel shutter; blower and fins cooling; film snubbers; reverse; motor rewind; tilting devices; pilot light; maximum undistorted output, 15 watts. Price, including case, $549.

AMPRO STYLIST

16 mm; sound and silent; 2000 feet capacity; portable unit, weighs 29 lbs.; 750 or 1000-watt lamp; 8-inch Alnico speaker; case and cords included; coated 2-inch f/1.6 lens (1



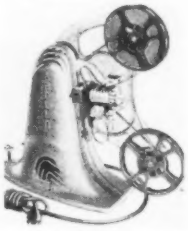
to 4-inch lenses available); triple claw movement; swing-out gate; fast automatic rewind; a-c or d-c operation; rheostat speed control; Class A universal type a-c, d-c amplifier with 4 watts maximum output. Price, $399.

MFR., Ampro Corp.

APOLLO SUPER 8

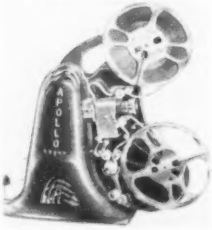
8 mm; silent; handles 400-foot reels; 110-125 a-c line voltage; coated 1-inch Simpson achromatic f/1.6 lens; 500-watt pre-focused lamp; air-blast cooling; double-claw action; 16 and 24 frames per second operating speeds; fast power rewind; rear tilting; gear drive; separate lamp and motor switches. Price, $69.50.

APOLLO P-66



16 mm; silent; 400 feet capacity; extension arm for 2000 feet; line voltage 110 a-c only; 500-watt T-10 lamp; direct and reflected lighting; separate light switch; 2-inch f/1.85 coated lens; helical focusing; belt drive; manual belt shift for 16 or 24 frames per second; barrel shutter; blower cooling; sealed lubrication; film snubbers; motor rewind; tilting devices. Price, $79.50.

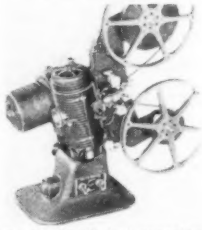
APOLLO SOUND MODEL P-96



16mm; sound and silent; 400 feet capacity; extension arm for 2000-foot reels; line voltage 110 a-c only; 60 cycles; 500-watt T-10 lamp; direct and reflected lighting; separate light switch; 2-inch f/1.85 coated lens; helical focusing; belt drive belt-shift speed control; 16 and 24 frames per second; barrel shutter; blower cooling; sealed lubrication; film snubbers; motor rewind; tilting devices; claw framing; plays through user's radio; maximum output depends upon user's radio; 400-foot reel antenna; weighs 30 lbs. Price, $149.50; case and 2000 ft. extension arms, $35; case, 2000 ft. extension arms, amplifier, and built-in speaker, $60.

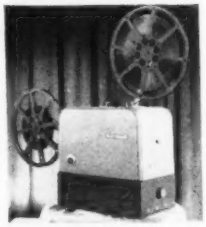
MFR., Excel Movie Products, Inc.

B&H REGENT



8 mm; silent; 400 feet capacity; line voltage 105-130 a-c, d-c; 500-watt B&H pre-aligned lamp; direct lighting; separate light switch; 1-inch f/1.6 coated lens; helical focusing; 3/4-inch f/1.8, and 1½-inch f/2.1 lenses available; all gear drive; friction brake speed control; rotary disc shutter; blower and fin cooling; motor rewind; tilting devices; single frame projection device; metered lubrication; weighs 7 lbs. with carrying case. Price, $169.95; carrying case, $10.

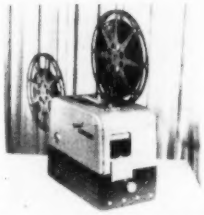
B & H FILMOSOUND 202 MAGNETIC-OPTICAL



16-mm sound and silent; 2,000-ft. capacity; line voltage 105-130, a-c, d-c; 25-60 cycles; amplifier on a-c only; lamp wattage 1000; screw base drop out lamp housing; direct lighting; separate light switch; gear drive; motor governor speed control; speeds of 16 and 24 frames per second; rotary disc shutter; blower cooling; film snubbers; metered lubrication; reverse; motor rewind; tilting device; pilot light; single frame projection device; maximum undistorted amplifier output 10 watts; reproduces standard optical sound; records and plays back magnetic sound at 16 or 24 frames per second; accidental erasure prevention; record and erase heads adjacent; microphone included; coated B & H 2-inch f/1.6 helical focusing lens. Price, $699, inc. case. Available accessories include lenses, hand turning knob for editing, phonograph channel and microphone channel, padded cover, record and erase lock; head phones, turntable, and record button lock.

B & H FILMOSOUND 285-C

16-mm sound and silent; 2,000-ft. capacity; line voltage 105-130 a-c, d-c; 25-60 cycles; amplifier a-c only; lamp wattage 1000; screw base drop out lamp housing; direct light; separate light switch; coated 2-inch B & H



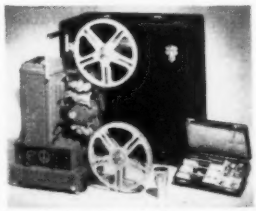
f/1.6 lens; gear drive; motor governor speed control; 16 and 24 frames per second; rotary disc shutter; blower and fin cooling; metered lubrication; film snubbers; reverse; motor rewind; tilting device; pilot light; single frame projection; maximum undistorted amplifier output 10 watts; 400-ft. reel included; aperture brush; oil can; spare reel arm belt; spare take-up belt; reel arm grease; case. Price, $449. Accessories available include lenses, auxiliary speakers; turntables, monitor speaker, automatic cord rewind and padded cover.

B&H DIPLOMAT

16 mm; silent; 400 feet capacity; line voltage 105-130, a-c, d-c; 1000-watt B&H pre-aligned lamp; direct lighting; separate light switch; 2-inch f/1.6 coated B&H lens; helical focusing; all gear drive; friction brake speed control; rotary disc shutter; fan and fin cooling; reverse; motor rewind; tilting devices; pilot light; single-frame projection device; radio interference eliminator; metered lubrication; safe-lock sprockets; magnilite condenser; can project sound film; weighs 14 lbs. Price, with case, $281.95; carrying case, $18.

MFR., Bell & Howell Co.

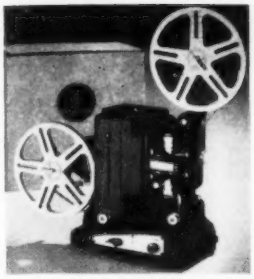
BOLEX G8-16



Combination 8 and 16 mm; silent capacity 400 ft.; 110-120 a-c, d-c; 50-60 cycles; lamp wattage 750; bayonet lamp mount accessible from top; direct lighting; separate light switch; built-in variable resistance; built-in voltmeter; gear and chain drive; rheostat speed control; rotary disc shutter; helical focusing; blower cooling; sealed lubrication; reverse; motor rewind; tilting device; single frame projection; changeover kit. Coated 25-mm f/1.8 lens for 8 mm; coated 50-mm f/1.6 lens for 16 mm. Price, inc. case, $353. 800-ft. extension arms available at extra cost.

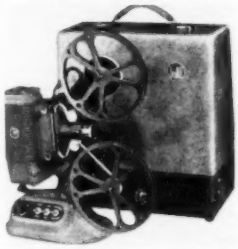
BOLEX M-8

8-mm; silent; 400-ft. capacity; 120 a-c, d-c line voltage; lamp wattage 500; bayonet lamp mount in swing-out housing; direct lighting; motor and light switch combined; helical focusing; gear drive; rheostat speed con-



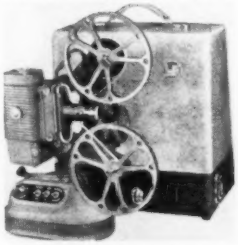
trol; rotary disc shutter; blower cooling; sealed lubrication; motor rewind; 3-point centering tilting device; automatic loop former; swing-out gate; room light control in lamp switch; reel; oiler; hand rewind crank; coated 20-mm Kern f/1.6 lens. Price, $176.50. Case, $18.75. 25-mm Kern f/1.5 lens available.

DEJUR MODEL 750



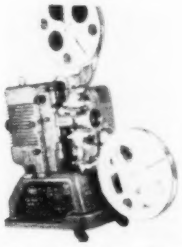
8 mm; silent; 400 feet capacity; line voltage 100-125 a-c, d-c; 25-60 cycles; 750-watt pre-focus lamp; direct lighting; separate light switch; variable resistance; coated 1-inch f/1.6 lens; helical focusing; ¾-inch and 1½-inch lenses available; single frame projection device; combination belt and chain drive; rheostat control; rotary disc shutter; blower ventilation; reverse motor rewind; tilting devices; swing-out film gate; case, 400-ft. reel. Price, $149.50 including tax; carrying case, $10 including tax.

DEJUR MODEL 1000



Similar to the Model 750 in features and characteristics; supplied with 750-watt lamp; has capacity for 1000-watt pre-focus lamp; automatic cord reel. Price, $167.50 including tax; carrying case, $10 including tax.
MFR., DeJur-Amsco Corp.

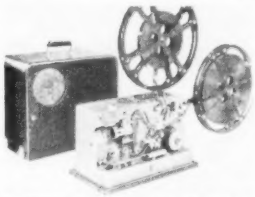
ELMO



16 mm; sound and silent; 750-watt illumination; smaller lamps can be used; 10-watt amplifier; speed control; microphone and phonograph jack; coated 2-inch f/1.6 projection lens; focusing control; 2000 feet capacity; single unit containing projector and amplifier. Price, $495.
DIST., General Photographic Supply Co.

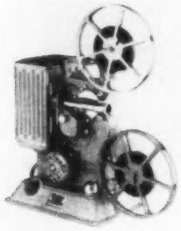
FORWAY 10-B

16 mm; sound and silent; 2000 feet capacity with extension arm supplied; 105-125 line voltages; 25-60 cycles; 750 or 1000-watt Westinghouse lamp recommended; reflected lighting; separate light switch; coated 2-inch Simpson f/1.6 lens; sliding focusing belt drive; governor speed control; rotary disk shutter; blower cooling; motor rewind; tilting device; 10 watts maximum undistorted output; steel



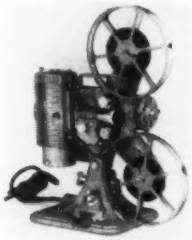
pressure shoe and gate. Price, $425.
MFR., Forway Industries, Inc.

KEYSTONE CROYDON MODEL R-8



8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 500-watt T-10 lamp; direct lighting; 3-position switch; 1-inch f/1.85 coated Wollensak lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disc shutter; blower cooled; motor rewind; tilting devices; pilot light; sealed lubrication with oil ducts to vital parts; weighs 23 lbs. Price $89.75; case, $10.50.

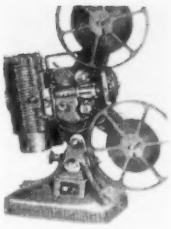
KEYSTONE COMMANDER MODEL K-68



8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; coated 1-inch f/1.6 lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disk shutter; blower cooling; sealed lubrication with oil ducts to vital parts; motor rewind; tilting device; pilot light; single frame projection device. Weighs 17 lbs. Price, $114.50; case, $10.50.

KEYSTONE COMMANDER DELUXE K-108C

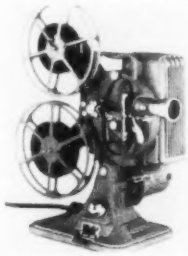
8 mm; silent 400 feet capacity; 110



a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; 1-inch f/1.6 coated Wollensak lens; helical focusing; gear drive; rheostat speed control; rotary disc shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection; special threading and framing; sealed lubrication with oil ducts to vital parts. Price, $149.50 with case.

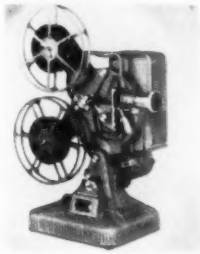
KEYSTONE CONTINENTAL A-82

16 mm; silent; 400 feet capacity; 110 line voltage a-c, d-c; 50-60 cycles;



750-watt T-12 lamp; reflected lighting; 3-position switch; 2-inch f/1.6 coated Wollensak lens; helical focusing; enclosed combination gear and belt drive; rotary disk shutter; blower ventilation; sealed lubrication; reverse; motor rewind; tilting device; pilot light; single-frame projection; special threading and framing. Price, with reel, lamp and cord, $119.50, inc. tax.

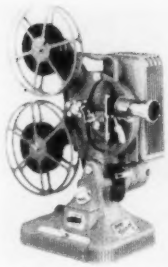
KEYSTONE CONTINENTAL DELUXE K-160



16 mm; silent; 400 feet capacity; 110 line voltage a-c, d-c; 50-60 cycles; 750-watt T-12 lamp; reflected lighting; 3-position switch; 2-inch f/1.6 coated Wollensak lens; helical focusing; combination belt and gear drive; rotary disc shutter; blower ventilation; sealed lubrication with oil ducts to vital parts; reverse; motor rewind; tilting devices; pilot light; single frame projection; Cordomatic reel; special threading and framing; weighs 28 lbs. Price, $149.50 with case.

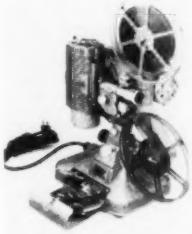
KEYSTONE BELMONT K-161

16-mm silent; 400-ft. capacity; lamp wattage 740; gear drive; 5 1-inch f/1.6 lens; motor rewind; same switch con-



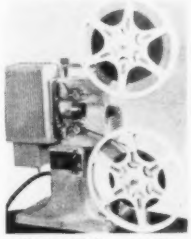
trols projector and room lights; built-in splicing units. Price, $159.50.

KEYSTONE REGAL K-109



8-mm silent; 400-ft.; capacity; lamp wattage 750; coated 1-inch f/1.6 lens; gear drive; single switch controls projector and room lights; motor rewind; built-in splicing unit. Price, $159.50.
MFR., Keystone Mfg. Co.

KODASCOPE EIGHT-71A



8-mm silent; 400-ft. capacity; lamp watt T-12 lamp supplied; interchangeable with 300-, 400-, and 500-watt T-10 lamps or 1000-watt T-12; direct lighting; separate light switch; coated 1-inch Kodak Ektanon f/1.6 lens; rubber belt drive for quieter running; rheostat speed control; shutter operated by air pressure; blower cooling with baffles introduced between condenser and aperture systems to protect film from heat; tilting device. Price $111.80, inc. tax. Case $18.50.

KODASCOPE SIXTEEN-10

16 mm; silent; 400 feet capacity; line voltage 100-125 a-c, d-c; 25-60 cycles; 1000-watt maximum lamp wattage; supplied with 750-watt lamp; direct lighting; separate light switch; 2-inch f/1.6 coated Kodak lens; helical focusing; belt drive; rheostat speed control; rotary disc shutter; blower and fins cooling; sealed lubrication;

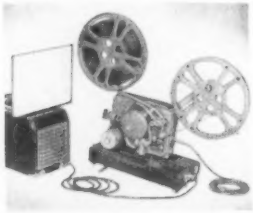
motor rewind; tilting devices; oiling outfit. Price $154.40, inc. tax; case, $16.50.

KODASCOPE PAGEANT SOUND PROJECTOR

16 mm; sound and silent; 110 line voltage, a-c, d-c; 25-60 cycles; 750- or 1000-watt lamp; lamp swings out; direct lighting; separate light switch; 2-inch, f/1.6 coated Kodak Projection Ektanon lens supplied; 1-, 1½-, 3- and 4-inch lenses available; belt drive; governor speed control; rotary disk shutter; blower ventilation; sealed lubrication; film snubbers; motor rewind; tilting device; thread-light connection; rotary sound head; 8-inch speaker, with 7-watt amplifier output, projector and speaker built into case. Price, with reel, lens, lamp, and spare exciter lamp, $400. Accessories include phonograph-microphone adapter, multi-speaker unit.

MFR., Eastman Kodak Co.

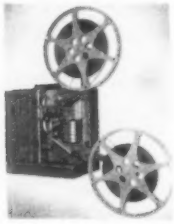
MOVIE-MITE 63 LM



16 mm; sound and silent; 2000 feet capacity; line voltage 105-120 a-c, d-c; 50-60 cycles; 300-watt T-8½ bayonet base lamp; direct lighting; separate light switch; 2-inch f/1.6 coated Somco lens; combination gear and V-belt drive barrel shutter; blower cooling; film snubbers; motor rewind; tilting devices; framer; constant tension take-up; weighs 27½ lbs.; complete with 800-foot reel, desk-top screen; single case with 6-inch speaker; aperture cleaner; lubricant; oil can, etc. Price, including case, $275.70. Accessories include 10-inch speaker with 50-foot cable.

MFR., Movie-Mite Corp.

RCA SENIOR



16mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; 750-watt T-12 pre-focused lamp; uses 200 to 1000-watt lamps; direct lighting; separate light switch interlocked with motor switch; coated RCA f/1.6 lens; helical focusing; belt drive; governor speed control; rotary disk shutter; blower cooled; one-spot lubrication; film snubbers; motor rewind; tilting device; pilot light; 10 watt undistorted output at less than 5% total harmonic distortion; one-case unit; spare reel; sound lamp; lens tissue; oil can; aperture brush; box fuses. Price, $560.

RCA JUNIOR

16 mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; 7-watt undistorted output at less than 5% total harmonic distortion; same features as Model 400 Junior except is a two case unit with amplifier and projector in one and speaker in other. Price, $475. Available lenses for RCA projectors include 1-, 1½-, 2½-, 3-, 3½-, and 4-inch focal lengths.

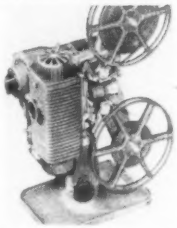
MFR., Radio Corp. of America. Engineering Products Dept.

REGER 16-01

16-mm silent; 400-ft. capacity; 110-volt a-c; line voltage; 60 cycles; lamp wattage 100; bayonet lock lamp; 2-inch lens; direct lighting; sliding focus; gear and belt drive; rotary disc shutter; louvered lamp-house cooling; motor rewind; tilting device; extra reel. Price, $18.95.

MFR., Reger Mfg. Corp.

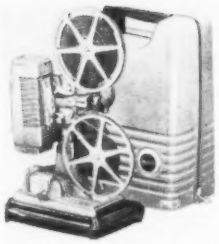
REVERE MODEL 85



8 mm; silent; 300 feet capacity; 110-120 a-c, d-c line voltage; 500-watt or 750-watt pre-focus lamp; 1-inch f/1.6 coated lens; ball-bearing motor drive; roller-type sprocket guides pass damaged perforations; duplex shuttle film movement; rheostat speed control; power film rewind; enclosed chain and gear drive; double blower cooling; single frame projection device; tilting devices; beam threading light; duo-shield diffuser to reduce ceiling light. Price, $114.50; with coated 1-inch f/1.6 lens, ¾-adapter lens, 500- or 750-watt lamp, 400-foot reel, and Royalite case, $132.50.

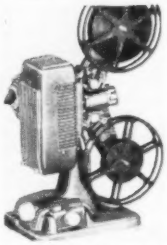
REVERE MODEL 90

8 mm; silent; 400 feet capacity; 110-120 line voltage; 60 cycles; 500- or 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 1-inch lens; wide-angle attachment standard equipment; combination gear and chain drive; rheostat speed control; rotary disk



shutter; blower cooled with separate film cooling fan; motor rewind; tilting device; pilot light; single frame projection device. Price, including case, $159.50.

REVERE MODEL 48



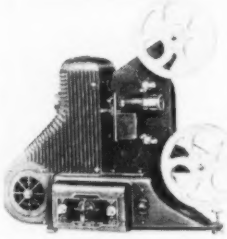
16 mm; silent; 400 feet capacity; 110-120 a-c, d-c line voltage; 60 cycles; 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 2-inch lens; combination gear and chain drive; rheostat speed control; rotary disk shutter; blower cooled with separate blower for film; motor rewind; tilting device; pilot light; single frame projection device. Price, $160.

REVERE SP-16

16 mm; sound and silent; 400-feet capacity; extension arm for 1600-foot reels; line voltage 105-120 a-c, d-c; 750-watt lamp; direct lighting; variable resistance; built-in voltmeter; 2-inch f 1.6 coated lens; combination gear and chain drive; fixed speed; rotary disc shutter; double blower cooling; sealed lubrication; motor rewind; tilting device; pilot light; beam threading device; duo-shield light diffuser; combination Alnico V speaker-carrying case combination; weighs approx. 33 lbs. Price, including case, $325.

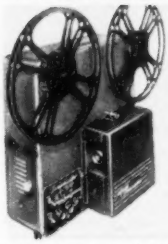
MFR., Revere Camera Co.

UNIVERSAL P-500



8 mm; silent; 200 feet capacity; 110 a-c line voltage; 60 cycles; 500-watt lamp; direct lighting; separate light switch; coated 1-inch f/2 projection lens; helical focusing; rheostat speed control; blower cooled with fins; sealed lubrication; film snubbers; motor rewind; tilting device; pilot light; single frame device. Price, $80.

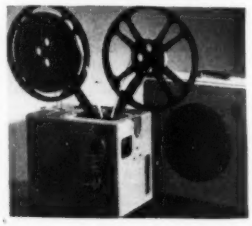
UNIVERSAL TONEMASTER



16 mm; sound and silent; 2000 feet capacity; 110 a-c line voltage; 60 cycles; 1000-watt lamp; direct lighting; coated 2-inch Superlux f/1.6 lens; coated condensers; helical focusing; tri-blade shutter; reverse draft; blower cooled; film snubbers; sealed lubrication; automatic motor-driven rewind; semi-automatic tilting; threading lamp; self-locking film gate; grouped controls; framing device; sound system includes 5-tube amplifier; 8-inch dynamic speaker with 50-foot cord; microphone and record-player plug in. Price, $350.

MFR., Universal Camera Corp.

VICTOR SOVEREIGN MODEL 60-25



16 mm; sound and silent; 2000 feet capacity; 100-125 a-c line voltage; 50-60 cycles; 750- or 1000-watt lamp; straight line optical system; separate light switch; separate microphone and phonograph inputs; coated 2-inch f/1.6 lens; helical focusing; 1- to 4-inch lenses optionally available; rotary disk shutter; still picture device; reverse; clutch-controlled motor rewind; counter-balanced Instantilt device; automatic film trip device; 180-degree swing-out lens; 25 watts undistorted output; 60 db signal to noise ratio; 12-foot power cord; weight with 12-inch speaker and 75-foot speaker line, 64 lbs. Price, $539; for 25-cycle operation, $559.

VICTOR ESCORT MODEL 60-10

Specifications similar to Sovereign; 10 watts undistorted output; separate microphone or phonograph input; optional 9-inch top mounted, and 12-inch separately cased speakers. Prices with 9-inch top-mounted speaker, $433; with 12-inch speaker, separately cased, $455.

VICTOR LITE-WEIGHT 60-4

16-mm sound and silent; 1600-ft. capacity; a-c, d-c; 25-60 cycles; lamp wattage 750; removable lamphouse; direct lighting; separate light switch; coated Simpson Optical 2-inch f/1.6 lens; belt drive; governor speed control; 16 and 24 frames per second; rotary disc shutter; fan cooling; film snubbers; reverse; motor rewind; tilting device; pilot light; single frame projection; maximum undistorted amplifier output 4 watts; safety film trips; 180-degree swing-out lens; duo flexo pawls; power cord; 1600-ft. reel. Price, inc. case, with 9-inch speaker $395; with 12-inch speaker, $417. Available accessories include auxiliary speakers, slip cover, microphone

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8mm
16mm

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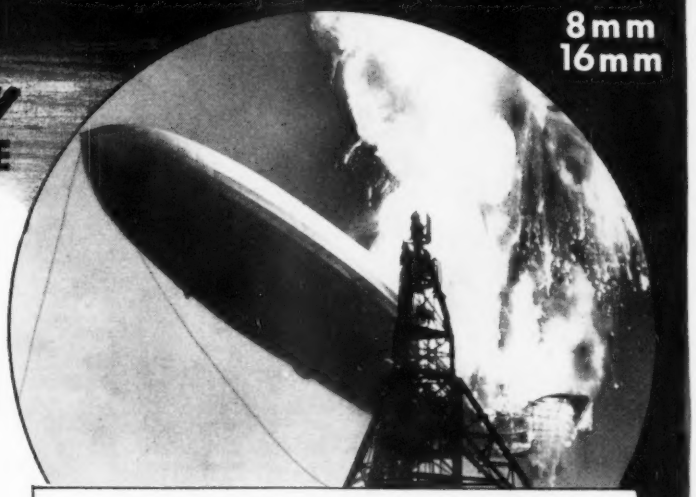

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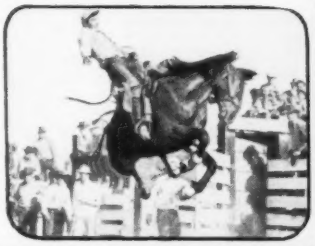

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Model MC300 Delineascope. Takes 2x2 glass slides, cardboard mounts, and 35-mm strip film; weighs 9 lbs.; accommodates both single and double-frame 35-mm film, rotating projection head; coated 5-inch f/3.5 lens; helical focusing; 300-watt T-10/61 lamp; 115 line voltage; forced ventilation; switch located back of projector; 2-place horizontal Autofocus slide carrier; removable film carrier; automatic frame-centering; positive elevating lever; selection of universal or induction motor. Price, $108.00 including case.

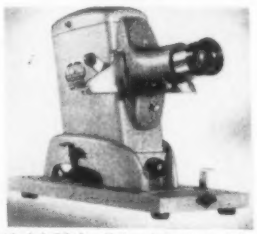
Model GK Delineascope. Takes 3¼x4 and 2x2 glass slides and 2x2 cardboard mounts; weighs 24 lbs.; coated 16-inch f/4.6 lens; helical focusing; condensers adjustable for lenses of various focal lengths; 750-watt T-12

lamp; 115-120 line voltage; forced ventilation; automatic centering slide carrier; front and rear elevating devices; selection of universal or induction motor. Price, $251 including case.

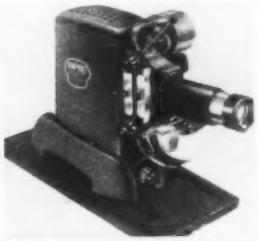
Performer 150 Delineascope. Takes 2x2 glass slides and cardboard mounts; weighs 7 lbs.; coated 5-inch f/3.5 lens; helical focusing; 150-watt T-8 lamp; 115 line voltage; switch in back of projector; 2-place horizontal Autofocus slide carrier; friction-type elevator lever; heat-absorbing glass; coated first surface reflector. Price, $49.50; case, $7.50.

MFR., American Optical Co., Scientific Instrument Div.

AMPRO



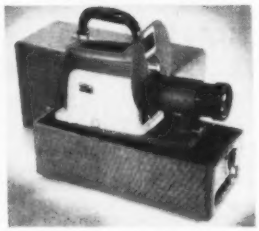
Model 30-A. Takes 2x2 glass slides or cardboard mounts; weighs 11 lbs.; 5-inch f/3.5 coated lens; knob focusing; 300-watt T-10 lamp for a-c or d-c; automatic snap-action self-centering slide carrier; screw-and-block tilting; Price, including case, $54.



Dual-Purpose Model 30-D. Takes 2x2 glass slides on cardboard mounts, single frame 35 mm slide film; 5-inch f/3.5 coated lens; sliding focusing; 300-watt T-10 lamp for a-c or d-c; special fin design to give maximum air flow; automatic snap-action self-center glass or mounts; two sprockets, curved film aperture to carry film; automatic frame centering; tilting device. Price, $92 with case.

MFR. Ampro Corporation.

ARGUS PB-200



Takes 2x2 glass slides and cardboard mounts; accommodates single and double frame micro-films and film strips with accessory film-strip holder; three oversize condensers; heat-absorbing glass; 200-watt lamp; is equipped with permanently attached blower unit built into carrying case; tilting arrangement; coated 4-inch f/3.5 lens; tripod bushing to use projector on camera tripod. Price, $49.50. Film-strip holder available as accessory, $4.25.

MFR., Argus Cameras, Inc.

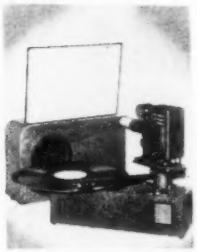
BELIREX

Takes 2x2 glass slides and cardboard mounts and 35-mm filmstrips; plastic construction; weighs 26 oz.; rotating projection head; 80-mm f/3.5 sliding focus lens; 110 line voltage; 75-watt T-8 lamp; convection cooling; dual

slide carrier; manual film carrier. Price, $19.95.

DISTT., Photographic Importing & Distributing Corp.

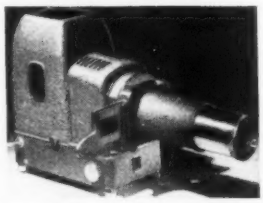
BELL BOY



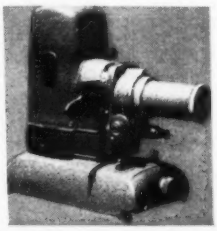
Sound slidefilm projector composed of S.V.E. Model G projector with 300-watt lamp and 4-inch lens, and 8-inch Alnico V speaker with amplifier having 8-watt output; single speed, 33⅓ rpm gear-driven motor; includes case, 11½x15½ screen; and swivel top for projector. Price, $186.

MFR., Movie-Mite Corp.

BELL & HOWELL



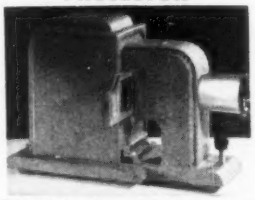
Duo Master. Takes 2x2 glass slides and cardboard mounts; weighs 5 lbs.; all metal construction; provision for projecting Kodak Bantam slides vertically; 5-inch f/3.5 coated lens; helical focusing; condensers adjustable; 3½ and 7½-inch lenses available; 300-watt Bi-plane filament lamp; permanently attached, heat-absorbing filter, conventional 2-place slide carrier; tilting device. Price, $89.45; carrying case, $10.50.



Slide Master. Takes 2x2 glass slides and cardboard mounts; can project vertical Kodak Bantam slides; front and rear tilt control; 5-inch f/3.5 coated lens; rack-and-pinion focusing; 3½ and 7½-inch lenses available; 1000-watt base-up lamp; heat-absorbing filter; line voltage, 110-125, a-c or d-c; fan-motor ventilation; conventional horizontal 2-place sliding carrier; lifetime lubrication. Price, $278.95; carrying case, $21.

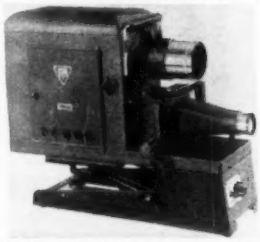
MFR. Bell & Howell Co.

B & L 2x2 SLIDE PROJECTOR



Takes 2x2 glass slides and cardboard mounts; weighs 8 lbs.; 5-inch lens; sliding focusing; 150-watt T-8 lamp on 120 line voltage; double-sliding slide carrier; tilting device; Price $58; case, $11.

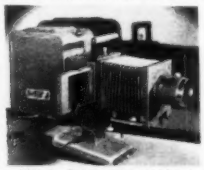
Model LRM-18. For opaque objects, drawings, photographic prints,



37 lbs.; 18-inch lens for opaque material and 10-inch lens for slide projection; sliding focusing; 7 and 14-inch lenses available; 500-watt T-20 lamp; motor-driven blower; double slide carrier; two postcard holders for opaque objects. Price, $235.

MFR. Bausch & Lomb Optical Co.

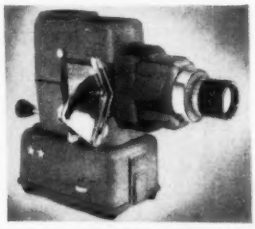
BESELER MODEL C



Takes 3½x4 slides adaptable to 2x2 slides and 35-mm filmstrips; 110 line voltage; convection cooling; adjustable base; available with a variety of lenses of different focal lengths. Accessories include lenses and 2x2 slide filmstrip adapters. Prices on request.

MFR., Chas. Beseler Co.

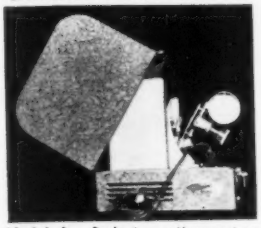
DAVIDSON TELE-COLOR



Takes 2x2 or 2½x2½ mounts; quickly convertible by interchanging condensing lens systems and carriers; 6-inch f/3.5 coated lens; double heat-absorbing lenses; 165 or 500-watt T-10-C13D pre-focus lamps; fan cooled; roll-out slide carrier; horizontal leveling; elevation and focus controls at rear. Price, $79.50, with condenser system desired; conversion system complete in cage with slide carrier, $15.50; 5-inch f/3.5 lens and 8-inch f/4.5 lens available at $22.50 each.

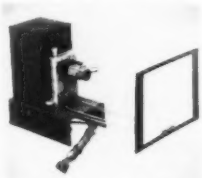
MFR., Davidson Mfg. Co.

DUNNING ANIMATIC



Model A. Projects continuous loop 16-mm filmstrip up to 400 frames; coated 2-inch f/1.6 lens; instantaneous claw movement for frame change; 300-watt Medium pre-focus bulb; pendant push-button and cord for remote control; 110-125 a-c line voltage; weighs 13 lbs. Complete desk screen units and accessories available. Price, $178.

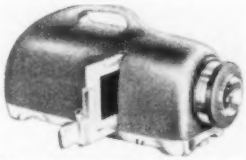
Model B. For continuous operation; projects up to 50 feet of 16-mm film frame by frame; accommodates 750-watt lamp; furnished with 500-watt; coated 2-inch f/1.6 lens; automatic timing device; manual push-button changer included; for a-c operation only; weighs 14½ lbs. Price, $198.



Junior Animatic. Takes 35-mm filmstrips; projects continuous loop filmstrips; 2-inch coated f/1.6 lens; operates on 105-120-volt a-c or d-c; lamp wattage 200; manual or remote control operation; for desk or screen use. Price, with 6x8-inch washable translucent screen, extension arm, special 1-inch wide-angle lens, remote control cord, and projection lamp, $69; with 2-inch lens, remote control cord, and projection lamp, $66. Accessories include desk screen assembly, lenses, and case.

MFR., Dunningcolor Corp.

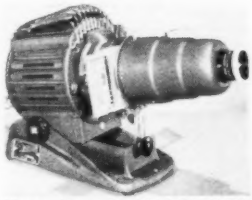
EMDE MODEL 21



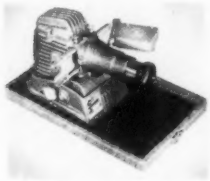
Takes 3¼x4 glass slides; takes 2¾x2¾ and 2x2 slides with adapters; weighs 8 lbs.; coated 5-inch f/3.5 lens, coated; helical focusing; auxiliary lens available to increase focal length of projector lens used; 150-watt T-8 lamp; line voltage 115-120; manual, positive stop aluminum slide carrier; tilting device; automatic frame centering; switch at rear of base. Price, $89.50; case, $13.75.

MFR. Emde Products, Inc.

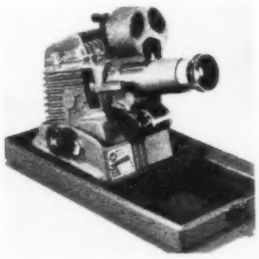
GOLDE



Master Projector 447. Takes 1⅝x2¼, 2¼x3¼, 3¼x4, and 2x2 glass slides; takes 2x2 cardboard mounts with accessory 2x2 slide adapter; takes double and single-frame 35-mm film with accessory Filmatic projection head; weighs 12 lbs.; rotating head; 6½-inch coated lens; helical focusing; condensers adjustable; 5, 9, and 12-inch lenses available; 500-watt T-20 medium prefocus lamp; line voltage, 110 to 120 a-c; 2-place slide carrier; tilting and frame-centering devices. Price, $76.65 inc. tax; case, $13. Long throw lenses in focal lengths of 14, 16, and 18 inches available.

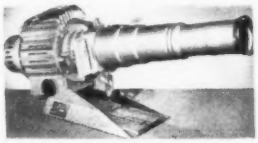


Manumatic 300-P. Takes 2x2 glass slides and cardboard mounts; takes Bantam 828 film; 5-inch coated f/3.5 lens; helical focusing; condensers adjustable; 2, 4, and 7-inch lenses available; 300-watt T-8½ lamp; motor driven blower; automatically stacks 50 paper or 20 glass slides; choice of Manumatic or 2-way slide carriers; tilting device; framing device. Price, $58.50, inc. tax; case, $12. Accessories include projection head for 35-mm strip film and Index Automatic slide changer.

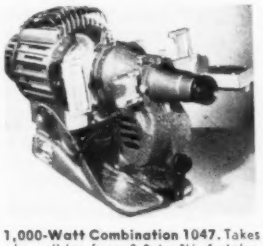


Filmatic 300-P-1043. Takes 2x2 glass slides and cardboard mounts; double or single-frame 35-mm film; Filmatic rotating head; 5-inch f/3.5 coated lens; helical focusing; Manumatic or 2-way slide carrier; adjustable condensers; blower cooled; same features and characteristics as the Manumatic model. Price, $90.25 including case.

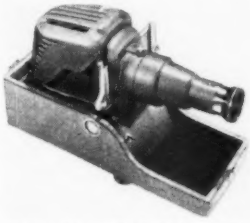
Air-Flo Stereopton 1043. Takes standard sizes from 2x2 to 3¼x4 glass slides with accessory slide adapters;



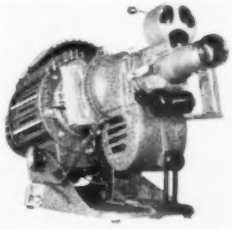
choice of 14 to 28-inch lenses; helical focusing; adjustable condensers; 1000-watt T-20 lamp for a-c use; forced air-blower cooled; 2-place slide carrier; tilting and frame-centering devices. Price, $85.50 including case and lamp. Accessories available include blower-adapter, etc.



1,000-Watt Combination 1047. Takes glass slides from 2x2 to 3¼x4; takes 2x2 cardboard mounts; weighs 43 lbs.; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; 1000-watt T-20 lamp; 110-120 a-c operation; Manumatic or 2-way 3¼x4 slide carrier; double blower. Price, $152.75, including case. Accessories available include projection head for 35-mm film strip and 2 to 28-inch lenses.



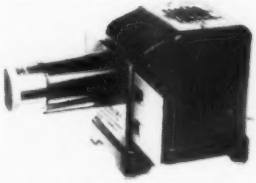
Reflex 349. For 2¼x2¼ transparencies. Accessory adapter available for 2x2 slides. Weighs 19 lbs.; coated 6½-inch f/4 lens; helical focusing; 5, 9, and 12-inch lenses available; condensers adjustable for lenses of various focal lengths; 300-watt T-8½ lamp; 110-120 a-c operation; blower cooled; 2-way autofocusing and self-centering slide carrier; automatic film advance; Ro-Tilt and lateral leveling device. Built into case. Price, $86.50 inc. tax. Accessories include projector head for 35-mm strip film.



All-Purpose 1048. Takes glass slides from 2x2 to 3¼x4; double and single-frame 35-mm film strips; coated 5-inch f/3.5 lenses; choice of 14 to 28-inch single-element lens in barrel; helical focusing; adjustable condensers; 250 to 1000-watt T-20 MPF lamp; a-c operation; a-c, d-c units available, double-blower cooled; 2-way or Manumatic slide carrier; self-rewind film carrier; tilting device; case. Price, $117.25, inc. lamp and case.

MFR., GoldE Mfg. Co.

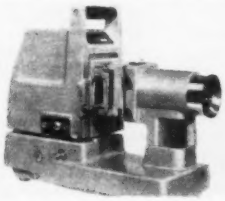
HOLLYSLIDE PROJECTOR



Takes 16 mm film strips; weighs 1½ lbs.; 2-inch lens; sliding focusing; 75-watt T-8 lamp; thermal cooling; 10 color transparencies mounted in a single cardboard holder; locator mechanism centers each frame as the holder is advanced through the projector. Price, $29.50.

MFR. Hollyslide Co., Inc.

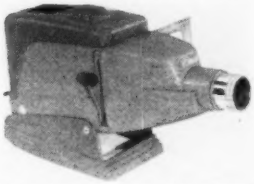
KERSHAW SLIDE KING



Takes 2x2 glass slides and cardboard mounts; adaptable to 35-mm filmstrip; all-metal construction; weighs 12 lbs.; single or double frame projection; rotating projection head; coated 4-inch f/2.8 lens; micrometer focusing; adjustable condensers; 500-watt prefocus lamp; line voltage 120; convection cooling; side switch; shuttle slide carrier; twin spool pressure release stripfilm advance; automatic film advance and frame centering; micrometer tilting. Price, $79.95; case, $17.95. Available accessories include lenses, spare lamp, film strip carrier.

DIST., General Photo Supply Co.

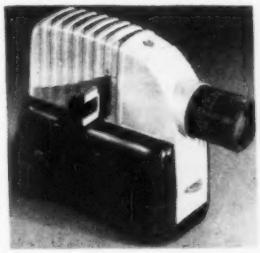
KIMAC DELUXE UNIVERSAL PROJECTOR



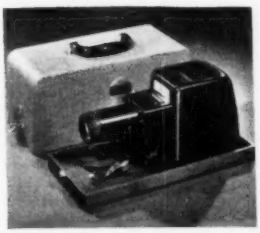
Takes glass slides from 2x2 to 3¼x4; 2x2 cardboard mounts; weighs 17 lbs.; 8-inch f/4 coated lens; helical focusing; 6-inch lens available; 300-watt T-10 lamp for a-c or d-c use; 2-place sliding carrier; tilting device. Price, $85 including case.

MFR., The Kimac Co.

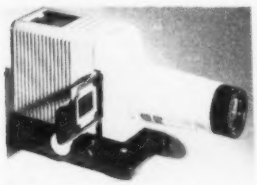
KODASLIDE



Master Model. Takes 2x2 glass slides and cardboard mounts; 5, 7½, and 1-inch coated lenses; rack-and-pinion focusing; adjustable condensers; Kodak Projection Ektar and Ektanon lenses available; 1000-watt prefocus lamp; 3-way ventilation with turbine-type fan; manually operated slide carrier; tilting mechanism; automatic frame-centering. Price, $181 to $295, depending upon choice of lens.



Merit. Takes 2x2 glass slides and cardboard mounts; plastic construction; weighs 3 lbs.; 5-inch, f/3.5 coated Kodak Ektanon Projection lens; helical focusing; line voltage 100-250 a-c, d-c; 150-watt lamp; convection cooling; slides inserted into carrier from top; elevating tilting arrangement; switch on line cord. Price, $24.50; two-section carrying case with space for spare lamp and power cord available as accessory.



Model 2A. Has similar features and

Plan now to enter the

1952 PHOTOGRAPHY $

Interesting . . . exciting

This big annual event is of importance to everyone who takes photographs, whether for diversion or as a profession—so send in your best pictures!

- **SEPARATE PRIZES** for Black-and-White, and for Color Prints or transparencies.
- **NO LIMIT** on the number of Black-and-White or Color entries from any contestant.
- **PRIZE-WINNERS** will be announced in the December 1952 issue.
- **GRAND OPENING** exhibition of prize-winning pictures to be held in New York City.
- **TRAVELING EXHIBITS** for international showings in principal cities of the world.

Rules of contest

1 The Contest is open to all persons, except employees of PHOTOGRAPHY, Ziff-Davis Publishing Company, and their families. CONTEST OPENS MARCH 7 and CLOSES JULY 15, 1952. No entry fee is required.

2 There will be a Black-and-White Division and a Color Division; each will be judged separately. Any number of black-and-white prints, color prints, or color transparencies may be submitted by any entrant, in conformity with the following regulations: Color prints and or transparencies must be submitted separately from black-and-white entries. There are no restrictions as to subject matter or size, in either Division, although 5x7 or larger prints are preferred. No acknowledgment of receipt of entries will be sent, unless entrants enclose an addressed postal card to be signed and returned.

3 Prints may be either mounted or unmounted; this is optional with entrants.

4 Hand-colored black-and-white prints (tinted with oil-paints, water-color, pastel, etc.) are not eligible as Contest entries; however, chemically-toned prints are acceptable.

5 Pictures which have been published in, or accepted for publication or are under consideration by any other photographic magazine, are not eligible. Publication in any other medium does not make prints or color transparencies ineligible.

6 Each print or transparency must have secured to it a filled-in entry blank as provided here, or facsimile thereof. Please print or type-write the information requested on the blank. Additional entry blanks are obtainable from photo dealers and finishers, or direct from the Contest Editor of PHOTOGRAPHY if request is accompanied by a self-addressed and stamped envelope.

7 All prints and transparencies will be held for judging after July 15, 1952, and no entries will be returned until after announcement of the winners has been published in the December, 1952 issue of PHOTOGRAPHY. Pictures which did not win prizes will then be returned as quickly as possible, *provided that self-addressed and stamped envelope, or addressed label and postage,* were contained in the same package in which each lot of entries was sent. *Do not send postage separately for return.* The Contest Editor cannot enter into correspondence of any kind regarding entries.

8 Prize-winning pictures, including all reproduction and promotional rights, become the exclusive property of PHOTOGRAPHY. All entrants who win prizes will be required to furnish original negatives before prizes are given. All prize-winning negatives become the exclusive property of PHOTOGRAPHY.

9 Judges in the Contest will be the editors of PHOTOGRAPHY. Their decisions will be final. In the event of a tie, duplicate prizes will be awarded.

10 Address all entries to Contest Editor, PHOTOGRAPHY, 270 Park Avenue, New York 17, N. Y. Final entries must be postmarked not later than midnight of July 15, 1952. Prize-winners will be announced in the December, 1952 issue of PHOTOGRAPHY. While exercising the utmost care in handling entries, PHOTOGRAPHY assumes no reponsibility for loss or damage of Contest entries.

11 Prizes will be United States Savings Bonds, Series E. Values of prizes listed are maturity values of the Bonds. Prize-winners who are not United States citizens will receive, in lieu of Bonds, a check in the amount of the purchase price of the Bond award.

12 FOREIGN ENTRANTS: The above rules apply to all entries, except that prints and transparencies submitted by persons residing in foreign countries are eligible for consideration only if accompanied by return postage. International Reply Coupons are acceptable as postage.

$25,000.00* International Picture Contest

*In United States Savings Bonds (Series E) plus Trophies and Certificates of Award

280 Prizes

Black-and-White			Color			Total
1st	U. S. Savings Bond plus Trophy	$2,000	1st	U. S. Savings Bond plus Trophy	$2,000	$ 4,000
2nd	U. S. Savings Bond plus Trophy	1,000	2nd	U. S. Savings Bond plus Trophy	1,000	2,000
3rd	U. S. Savings Bond plus Trophy	750	3rd	U. S. Savings Bond plus Trophy	750	1,500
4th	U. S. Savings Bond plus Plaque	500	4th	U. S. Savings Bond plus Plaque	500	1,000
5th	U. S. Savings Bond plus Plaque	250	5th	U. S. Savings Bond plus Plaque	250	500
50	Prizes, U.S. Savings Bonds, each	100	50	Prizes, U.S. Savings Bonds, each	100	10,000
70	Prizes, U.S. Savings Bonds, each	50				3,500
100	Prizes, U.S. Savings Bonds, each	25				2,500
					GRAND TOTAL	$25,000

**In the event of a tie, duplicate prizes will be awarded.*

Final closing date: July 15, 1952

Use this entry blank

Each one of your entries must be accompanied by a filled-in entry blank provided here, or a facsimile of it. Your photo dealer or your finisher has additional blanks on hand should you need them; or you can obtain entry blanks from the Contest Editor of PHOTOGRAPHY. Your request for more blanks should be accompanied by a self-addressed stamped envelope.

* Values given are maturity values of the bonds. Bonds will be delivered in denominations requested by prize winners. Each prize will be accompanied by a certificate of award suitable for framing. This certificate is printed on fine parchment stock and will bear the hand-lettered name of the winner.

USE THIS ENTRY BLANK (PLEASE PRINT)

1952

Contest Editor, PHOTOGRAPHY
270 Park Avenue, New York 17, N. Y.

Please enter the enclosed picture in the PHOTOGRAPHY Picture Contest for 1952. It is submitted in accordance with the rules, which I have read.

Name .....

Street .....

Town ..... Zone ..... State .....

Picture Title ..... Have You a Model Release? .....

Where Made .....

Camera Used ..... Lens .....

Exposure: Lens stop ..... Shutter Speed .....

Film Used ..... Filter .....

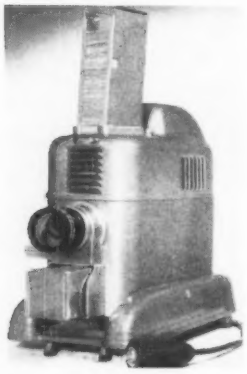
Lighting ..... Paper .....

Published before? ..... Where? .....

CAUTION: Postage *must* accompany entry if you want this picture returned in the event that it does not win a prize (See Rule 7).

construction as the Model 1A; 5-inch f/3.5 coated lens; sliding focusing; Kodak Projection Ektanon 7½-inch f/4 lens available; Price, $47.50; price of case, $15.
MFR. Eastman Kodak Co.

LA BELLE



Model 302. Takes 35 mm and Bantam slides; automatic magazine slide projector; slides change by remote control; holds 75 readymounts or 40 glass slides; slide magazine feeds, changes, and re-stacks slides; coated f/3.5 lens; 750-watt lamp; blower cooled. Price, $154.95, inc. tax, with case.

Model 500. Takes 35 mm and Bantam slides; automatically feeds, changes, and re-stacks slides; blower cooled with pre-heating chamber to condition slides for projection; holds 75 readymounts or 40 glass slides; coated f/3.5 lens; 500 watts. Price, $95, inc. tax.

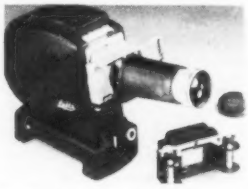
Model 200. Takes 35 mm and Bantam slides; automatic magazine feeds, changes, and re-stacks slides; pre-heating chamber to condition slides; "movie-action" shutter to

eliminate "wipe" effect during change; holds same number of slides as Model 500; coated f/3.5 lens; 200-watt lamp. Price, $68.50.
MFR., La Belle Industries.

LEITZ

VIII S. Takes 2x2 glass slides and cardboard mounts, and double and single frame 35-mm strip film; rotating projection head; coated 85, 100, or 120-mm f/2.8 lens; helical focusing; adjustable condensers; 400-watt PFC lamp; 110 line voltage; convection cooling; metal slide carrier; roll film

holder; tilting device. Price, $117.34.



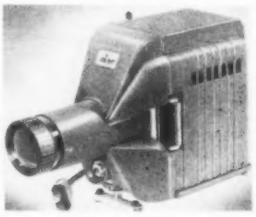
Prado. Takes 2x2 glass slides and cardboard mounts, and double and single frame 35-mm strip film; coated 100 or 120-mm Hektor f/2.8 lens; helical focusing; adjustable condensers; 250-watt PFC lamp; metal carrier; roll film holder. Price, $117.34.
MFR., E. Leitz, Inc.

SIEMENS 35 MM—2 x 2 ATTACHMENT

Takes 2x2 glass slides and cardboard mounts, and 35-mm film strips; metal construction; weighs 1 lb.; shows either single or double frame 35 mm; rotating projection head; 135-mm

f/6.5 Rodenstock lens; helical focusing; fits on almost all 16 mm silent and sound projectors, and uses the illumination of the projector it is used with; dual type slide carrier. Price, $15.95.
DIST., Spiratone.

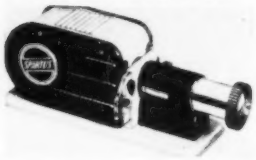
SKAN



Model SP-200A. Takes 2x2 glass slides and cardboard mounts; Bantam, single and double-frame 35 mm film; coated 5-inch f/3.5 lens; friction focusing; 4-inch f/3.5 coated lens available; 200-watt T-8½ DC-short lamp; blower system cools both lamp and slide; direct insertion slide carrier; automatic frame-centering; tilting device. Price, $39.95. Accessories include manual slide changer, index slide file, carry case, etc.

Model SP-100A. Same as above in features and characteristics except it has 100-watt T-8SC-short lamp and uncoated 5-inch f/3.5 lens. Price, including tax, $29.95.
MFR., G-M Laboratories, Inc.

SPARTUS 2x2 SLIDE PROJECTOR

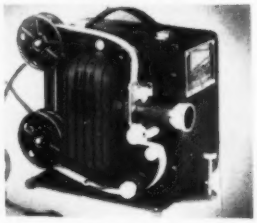


Takes 2x2 glass slide and cardboard mounts; single frame 35 mm; 5-inch f/3.5 lens; 100-watt lamp; sliding focusing; 110-120 a-c line voltage; built-in on-off switch; tilting device. Price, $12.95; case, $3.50.
MFR., Herold Mfg. Co., Inc.

SPIRATONE

Takes 2x2 glass slides and cardboard mounts; bakelite construction; weight 4 lbs.; 4-inch f/3.5 lens; sliding focusing; line voltage 110, a-c, d-c; 100-watt T-8 lamp; convection cooling; double slide carrier; screw tilting device. Price, $9.95; blower case, $9.95.
MFR., Spiratone.

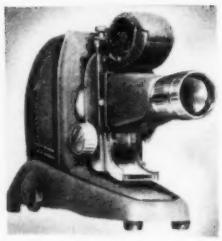
STRIP-SLIDE PROJECTOR



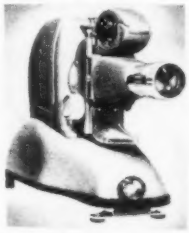
Takes 8 and 16-mm film from still or movie cameras; weighs 11 lbs.; projects single frames in strip form; operates automatically, continuously, or by remote control; 150-watt pre-focused lamp; automatic framing device; coated 2-inch lens; adjustable diaphragm; helical focusing; leveling device; blower cooled; 115-125 a-c line voltage; film is threaded similar to movie projector. Price, $99.50; case, $12.50.
MFR., Strip-Film Projector Co.

S. V. E.

Entertainer 300. Takes 2x2 glass slides and cardboard mounts; weighs 7½ lbs.; shows double and single frame 35 mm; coated 5-inch f/3.5 lens; helical focusing; 3 to 7-inch lenses available; 300-watt T-10 lamp; natural draft ventilation; automatic slide changer; slide lever controlled; automatic frame-centering; automatic slide advance; slides deposited in drawer; tilting device. Price, $79.50; case, $14.95.

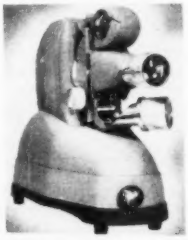


Instructor 300. Similar to Entertainer 300; equipped with rotating projection head; takes 2x2 slides and single and double frame 35 mm strip film; coated 5-inch f/3.5 lens; 300-watt lamp; horizontal slide carrier; glass aperture plates; sprocket drive; push-in style threading; adjustable aperture for single and double frame, and 1x1" size. Price, $89.50; case, $9.95; rewind takeup available as accessory.



Instructor 500. Same as Instructor 300, except blower-cooled; uses 500-watt T-10 lamp; rear 3-position switch; other features identical to above. Price, $109.50; case, $10.95.

Instructor 750. Same as Instructor 500, except uses 750-watt T-12 lamp; has semi-automatic vertical slide carrier and rewind take-up, other features identical to above. Price, $139.50; case, $12.95.



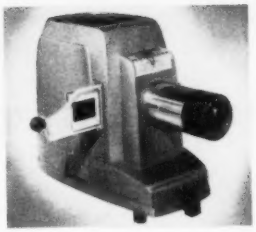
Instructor 1000 AC. Takes 2x2 glass slides and cardboard mounts; takes single and double frame 35 mm strip film; rotating projection head; coated 5-inch f/3.5 lens; 3 to 10-inch lenses available; helical focusing; blower cooled; push-in threading; glass aperture plates; semi-automatic vertical slide changer; rewind take-up, uses 1000-watt T-12; for a-c use only; automatic frame-centering; tilting device; sprocket drive. Price, $189.50; case, $14.95. Instructor 1000 AC-DC, same projector as above, except operates on a-c or d-c, $219.50; case, $14.95.

Model AAA-2. Takes 2x2 glass slides and cardboard mounts; single and double-frame 35-mm film strips;

swivel projector head for vertical frame projection; 5-inch f/3.5 coated lens; helical focusing; 3, 4, 7, and 10-inch lens available; 300-watt T-10 lamp; natural draft ventilation; horizontal slide changer; sprocket-drive film advance; indexing adjustment for single or double frame; manual adjustment frame-centering; tilt lever. Price, $72.50; case, $7.50. Rewind takeup available as accessory.

Skyline D. Takes 2x2 glass slides and cardboard mounts; all-metal; 5-inch f/2.9 coated lens; helical focusing; longer focal lengths available; line voltage 115, ac; 300-watt T-8½ lamp; blower-cooled; rear switch; semi-automatic slide carrier; automatic frame centering; sliding cam tilting device; 15 feet line cord; manuscript window; Riviera green, satin finish. Price, $78.70; case, $12.50.

Skyline C. Same as Skyline D, except with 5-inch f/3.5 coated lens; f/2.9 lens, and f/3.5 lenses in longer focal lengths available. Price, $68.20; case, $12.50.



Skyline B. Takes 2x2 glass slides and cardboard mounts; all metal; 5-inch f/4 coated lens; helical focusing; line voltage 115, a-c; 300-watt lamp blower-cooled; rear switch; horizontal traverse slide carrier; automatic frame centering; sliding cam tilting device; Riviera green, Hammerloid finish. Price, $52.45; case, $12.50. Ac-

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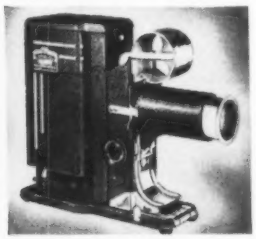
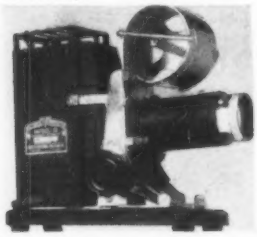
cessories include f/2.9, f/3.5 lenses, semi-automatic slide changer.

Skyline A. Identical to Skyline B, except with 200-watt T-8 lamp, and convection-cooled instead of blower-cooled. Price, $41.95; case, $12.50. Accessories include lenses, semi-automatic slide changer, and blower motor.



Model G-2. Takes 35-mm single frame film strips; 4-inch f/3.5 coated lens; sliding focusing; 3, 5, 7, and 10-inch lenses available; 300-watt T-10 lamp, convection cooling; rear switch; sprocket drive; automatic film advance; automatic frame centering; spiral cam tilting; slip-in threading; glass aperture plates; recessed film track and magazine. Price, $59.50; case, $7.50. Rewind takeup available as accessory.



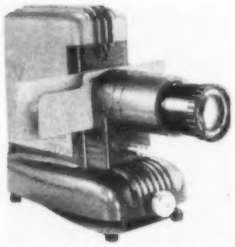
Model Q. Takes single-frame 35-mm film strips; 3-inch f/3.5 lens; sliding focusing; 2 and 4-inch lenses available; 100-watt T-8 lamp; natural draft ventilation; sprocket drive; adjusting tilt lever. Price, $39.50; case, $5.95. Rewind takeup available as accessory.

S.V.E. International. A gasoline-kerosene burning projector for 2x2 glass slides and cardboard mounts, and single and double frame 35 mm strip film; rotating projection head;

horizontal slide carrier with adapter; coated 5-inch f/3.5 lens; 3, 4, and 7-inch lenses available; illuminated by Coleman lamp; burns from 10 to 12 hours without refilling. Price, $79.50; case, $19.95. Rewind takeup available as accessory.

MFR. Society for Visual Education Inc.

TDC VIVID



Model A-1. Takes 2x2 glass slides and cardboard mounts; coated 5-inch anastigmat lens; helical focusing; 150-watt T-8 lamp; a-c, d-c operation; convection cooling; self-centering shutter-type slide carrier; spring tilt adjustment. Price, $34.75 inc. tax; case, $7.50. Accessories include Selectron Automatic and Selectron-Semimatic Slide changers, Selectrays, etc.

Model A-2. Similar to Model A-1 but has deluxe base; uses 200-watt T-8 lamp; convection cooled. Price, with manual changer, $38.75 inc. tax; with Selectron-Semimatic (illustrated), $48.75. Convertible to Model A-3 Accessories same as A-1.

Model A-3. Identical to Model A-2 except has blower-cooling unit in base; for a-c use only. Price, with

manual changer, $48.75 inc. tax; with Selectron-Semimatic, $58.75. Accessories same as for Model A-1.

Model B. Takes 2x2 glass slides and cardboard mounts; coated 5-inch f/3.5 anastigmat lens; roller-bearing focusing; 4, 6, and 7½-inch lenses available; 150-watt T-8 lamp; a-c, d-c use; convertible to 300 watts; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; positive lock tilt control. Price, with manual changer, $44.50, inc. tax; case, $9.50. Accessories include fan cooling unit for $12.50. Price, with Selectron Automatic Slide Changer illustrated with Selectray to hold 30 slides for forward or reverse projection, $54.50; additional Selectrays, $1.00, $1.50; filmstrip attachments, $18.50, $29.50.

Model C. Similar to Model B except wiring and condenser system; 300-watt T-10 lamp for a-c or d-c use. Price, with manual changer, $54.50, inc. tax; case, $9.50. Accessories same as for Model B.

Model D. Similar to Model C but has new maximum-efficiency condenser system, 300-watt T-8½ lamp, and high-speed blower-cooling unit in base; for a-c use only. Price, with manual changer, $66.50, inc. tax; case, $9.50. Accessories same as Model B.

Mainliner 300. Takes 2x2 glass slides and cardboard mounts; 5-inch f/3.5 coated lens; 300-watt T-8½ lamp; a-c use only; blower cooled; frame centering; shutter-type manual slide changer as regular equipment (not shown); micro-tilt adjusting. Price, $58.50. Accessories include Selectron Semimatic (illustrated) and Selectron Automatic slide changers, Selectrays, cases.

Model RN. Takes 2¾x2¾ glass slides; takes 2x2 glass slides and cardboard mounts; 4-inch coated lens; micro-focusing; 150-watt T-8 lamp for a-c or d-c; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; positive lock tilt control; includes auxiliary condenser for use when maximum illumination of 2x2 slides is desired. Price, $64, inc. tax; price of case, $9.50. Convertible to Model RO. Accessories include fan cooling unit, $12.50; Selectron Automatic, $25; Selectron-Semimatic, $12.50.

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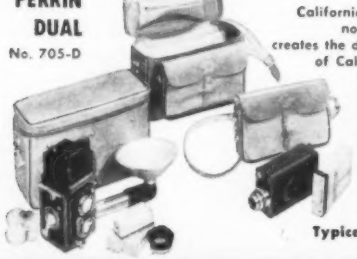

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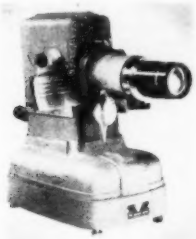
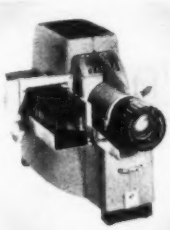
Model RO. Identical to Model RN except has 300-watt T-10 lamp for a-c or d-c use. Price, $74, inc. tax. Same accessories as Model RN.

Model RP. Identical to Model RO except it has blower cooling unit in base; for a-c use only. Price, $86.50; case, $9.50, inc. tax.



Professional 500. Takes 2x2 glass slides and cardboard mounts ("Duo" model takes 2¾x2¾ mounts, and 2x2 mounts); coated 5-inch f/3.5 anastigmat lens (6-inch lens on 2¼x2¼ model); 4, 5, 6, and 7½-inch lenses available; 500-watt lamp; axial flow cooling fan; a-c use only; prevue light; roller-bearing focusing, slide carrier, pointer apertures; tilt control same as in Model B. Price, 2x2 model, $99.50; 2¼x2¼—2x2 "Duo" model, $119.50; case, $15. Accessories include Selectron-Automatic and Selectron-Semimatic changers, filmstrip attachments, etc.



Streamliner 500. Takes 2x2 glass slides and cardboard mounts; all metal construction; coated 5-inch f/3.5 lens; helical focusing; 105-120 line voltage; 500-watt T-10P lamp; switch in rear; a-c blower cooling; Selectron Semi-matic slide changer inc. trays; micrometer tilting; accepts TDC De Luxe manual slide changer; or Selectron automatic. Price, $84.50; case, $16.50.

Professional 750. Features similar to 500 model; equipped with 750-watt lamp; 1000-watt may be used; universal type centrifugal blower for a-c use only. AC-DC model on special order. Price, 2x2 model with 5-inch lens, $150; 2¼x2¼ "Duo" model with 6-inch lens, $170; case, $15.
MFR., Three Dimension Co.

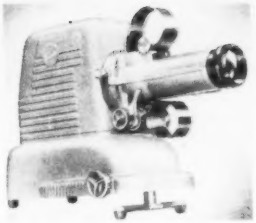
VIEWLEX

Model 25-C. Takes 2x2 glass slides and cardboard mounts, and 35-mm filmstrips; single and double frame; vertical and horizontal; push-in filmstrip threading; positive framing; automatic centering; 110-120 line voltage; 500-watt lamp; a-c blower cooling; coated 5-inch f/3.5 lens; twin action slide carrier; spring tilting. Price, $104.95. Available accessories include case and lenses.

Model 35-C. Takes 2x2 glass slides and cardboard mounts; coated 5-inch f/3.5 lens; 110-120 line voltage; 500-watt lamp; a-c blower cooled; twin action slide carrier; automatic frame centering; spring tilting. Price, $74.95. Available accessories include lenses and case.

Model V-3. Takes 2x2 glass slides and cardboard mounts; weighs 11 lbs.; coated 5-inch f/3.5 lens; sliding focusing; 3, 7, 9, and 11-inch lenses available; adjustable and interchangeable condensers; 150-watt T-8 lamp; 110-120 a-c, d-c line voltage; twin-action slide carrier; automatic frame-centering; tilting device. Price, $35.95 plus tax; case, $9.90.

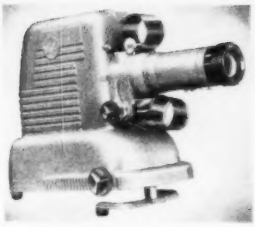
Model V-2C. Takes 2x2 glass slides and cardboard mounts; single and double-frame 35 mm film strips; coated 5-inch f/3.5 lens; helical focusing; condensers adjustable and interchangeable; 3, 7, 9, and 11-inch lenses available; 150-watt T-8½ lamp; twin-action slide carrier; tilting device; automatic frame-centering. Price, $72; case, $9.90.



Model V-22C. Same as Model V-2C, but has motor fan cooling; 300-watt T-8½ lamp. Price, $86.75; case, $9.90.

Model AP-7CT. Takes 2x2 glass slides and cardboard mounts, and double and single frame 35 mm; weighs 12 lbs.; rotating projection head; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; uses 300 to 1000-watt lamp; 110-120 a-c use; motor built in base for fan cooling; semi-automatic slide carrier; removable, semi-automatic, self-indexing frame-centering; tilting device. Price, $245 including case.

Model V-4S. Projects single-frame film strips; line voltage 110-120, a-c, d-c; metal construction; optional 2 or 5-inch f/3.5 coated lenses; 7-inch lens available; condensers adjustable for varying focal lengths; 150-watt T-8 lamp; convection cooling; base switch; two ceramic edged glass aperture plates hold strips; spring loaded tilting device. Price, $45.25; case, $9.90. Model V-44S, same as above, except



with 300-watt lamp; motor fan cooling. Price, $59.25; case, $9.90.
MFR., Viewlex, Inc.

VIEW-MASTER

Projects View-Master seven-scene color reels only; 3-inch f/3 coated lens; 75-watt T-8 lamp; convection cooling; automatic centering; tilting device; double-mirror tilt reading; automatic film advance; built-in projection pointer throws arrow on screen. Price, $47.50; case, $5.
MFR. Sawyer's Inc.

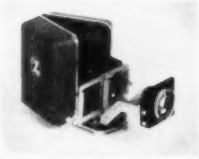
VUAID

Takes 2x2 glass slides and cardboard mounts; metal construction; 4-inch f/3.5 lens; sliding focusing; line voltage 110-120 a-c, d-c; 100-watt S-11 lamp; convection cooling. Price, $10.95 including tax.
MFR., Bradfield & Bidwell, Inc.

WEIMET MODEL A DELUXE

Takes 2x2 glass slides and cardboard mounts; single and double-frame 35-mm film; 5-inch f/3.5 lens; apertures up to f/3.5; helical focusing; 150 watt bayonet-type lamp; self-centering slide carrier; tilting device; automatic frame-centering. Price, $22.50.
MFR., Weimet Film Co., Inc.

ZETT 35



Takes 2x2 glass slides and cardboard mounts; 110 line voltage; coated 80-mm f/2.5 lens; dual carrier; all-metal construction; weighs 1¾ lbs.; case. Price, $76.50.
DIST., Willoughby's.

RANGEFINDERS

ARCO

Double image type; calibrated from 3 feet to infinity; has holder for neck chain; chrome finish; gives readings in both meters and feet at same time by means of separate meter scale on back of finder. Price, with case, $9.98, inc. tax.
DIST., General Photographic Supply Co.

BUSCH PROFESSIONAL

Double image type; calibrated from 2½ feet to infinity; coupled directly to camera bed on press-type cameras; protected cam; focusing spot light outlet; removable extension tube; protected by encircling bracket. Price on request.
MFR., Busch Camera Corp.

CHESS-UNITED

Double image type; calibrated from 2½ feet to infinity; attachable to shoe on all foreign cameras; special shoe for Kodak cameras; adjustable dial. Price, with case, $10.50.
MFR., Chess-United Co., Inc.

ERNI

Double image type; calibrated from 8 meters to infinity; chrome finish; pocket type with dial reading; attachable to camera shoe. Price, $5.95, inc. tax. Case, $1.
DIST., General Photographic Supply Co.

IDEAL

Double image type; calibrated from 2½ feet to infinity; polished black finish; pocket type with dial reading. Price, $2.95, including case and tax. Three year service guarantee.
MFR., Federal Instrument Corp.

KALART

Double image types; calibrated from approximately 4 feet to infinity; attaches directly to side of camera; coupled to a specific lens of a given focal length; simplified adjustments for re-adjustment to supplementary lens; special outlet for attaching the Kalart Focospot accessory. Ten models for 2¼x3¼ to 5x7 cameras. Price $29.95.
MFR., The Kalart Co., Inc.

KODAK SERVICE

Split field, military type; calibrated from 2 feet to infinity; the distance is read directly through eyepiece; used as hand meter, also fits bracket on Kodak 35 f/3.5 and f/4.5 cameras; chrome. Price including case, $12.50.
MFR., Eastman Kodak Co.

MEDIS

Double image type; calibrated from 2.8 feet to infinity; chrome finish; fits camera shoe; accessory clip supplied if desired. Price, $5.
DIST., A. G. Photo Distributors.

MEYER CAM COUPLED

Double image type; calibrated from 2½ feet to infinity; coupled directly to camera bed on press-type cameras; compensating curve cam for each focal length lens; adapted for Focalite; protected by encircling bracket. Price, $28.50.

MEYER FIELD RANGEFINDER

Double image type; calibrated from 8 feet to infinity; precision measurement up to 100 feet; gray finish. Price, $32.50, inc. case.
DIST., Meyer-Opticraft, Inc.

OMAG

Double image type; calibrated from 28 inches to infinity; ball-bearing; black crinkle finish. Price, $9.98.
DIST., General Photographic Supply Co.

POCKET RANGE FINDER

Double image type; calibrated from 2½ feet to infinity; attachable to shoe on camera; black wrinkle finish; available in either feet or meters; height adapter available. Price, $9.90, including tax.
MFR., Meyer-Opticraft, Inc.

PRAEZISA

Double image type; calibrated from 2½ feet to infinity; chrome and leather finish; external adjustment screw; fits camera shoe. Price, $3.95.
DIST., Spiratone.

WALZ

Double image type; calibrated from 2½ feet to infinity; also available in calibrated from ¾ meter to infinity; universal attachable shoe to fit Kodak and other cameras. Price, $5.95.
DIST., General Photographic Supply Co.

WATAMETER II

Double image type; calibrated from 1⅔ feet to infinity, in 21 markings; distance is read directly through eyepiece; fits camera shoe; chrome and leather finish. Price, with leather case, $9.50, inc. tax.
DIST., Alfa Photo Corp.

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1—Locate the trade-in allowance price of your present equipment, in column three.
2—Select that Brand New or Used Camera, or equipment, you desire in column one or two.
3—Deduct the trade-in allowance from the Brand New or Used Price.
4—Then rush us your equipment plus your remittance, or C.O.D. instructions for the balance due. **MINIFILM will immediately forward the equipment you desire!**—Of course your selection is insured, because our 10-day FREE trial period and full refund terms, one year guarantee, is always in effect at **MINIFILM!**

LEICA—CONTAX—NIKON

	New	Used	Trade-in
Leica A f3.5 Elmar		$ 49.00	$ 30.00
Leica Standard f3.5 Elmar		54.00	40.00
Leica D f3.5 Elmar		84.00	65.00
Leica III f3.5 Elmar		99.50	75.00
Leica IIIA f3.5 ctd Elmar		124.00	95.00
Leica IIIA f2 ctd Summar		129.00	100.00
Leica III C f3.5 ctd Elmar	$259.00	159.80	125.00
Leica III C f2 ctd. Summitar	350.00	209.00	170.00
Leica III C f1.5 ctd Summarit	434.00	259.00	200.00
Leica III F f3.5 ctd Elmar	278.80		160.00
Leica III F f2 ctd Summitar	384.20		230.00
Leica III F f1.5 ctd Summarit	469.20		265.00
Leica II F f3.5 ctd Elmar	209.10		100.00
Nikon f2 ctd	259.00	179.00	115.00
Nikon f1.4 ctd	349.00	229.00	145.00
Contax I f2.8 Tessar		69.50	45.00
Contax I f2 Sonnar		89.50	60.00
Contax II f2 Sonnar		159.00	110.00
Contax III f1.5 Sonnar		189.00	125.00
Contax III f2 Sonnar		169.00	115.00
Contax III f1.5 Sonnar		188.00	125.00
Contax IIA f2 ctd Sonnar	444.00	254.00	210.00
Contax IIA f1.5 ctd Sonnar	488.00	296.00	240.00
Contax IIIA f2 ctd Sonnar	490.00	374.00	250.00
Contax IIIA f1.5 ctd Sonnar	534.00	424.00	275.00
Contax S f2 ctd Biotar	460.00	229.00	170.00
Contax "S" f2 ctd Biotar Preset	460.00	259.00	190.00

35mm CAMERAS

	New	Used	Trade-in
Univex Mercury I f3.5		$ 12.50	$ 7.00
Univex Mercury II f2.7		27.00	16.00
Univex Buccaneer f3.5 ctd		19.50	14.00
Argus A f4.5		9.95	6.00
Argus A 2 f4.5		14.00	9.00
Argus FA f4.5	$ 29.95	17.50	12.00
Argus C 2 f3.5		19.95	14.00
Argus C 3 f3.5 ctd flash & case	69.50	39.50	32.00
Argus 21, f3.5 ctd	55.10	35.00	27.00
Argus C 4, f2.8 ctd	99.50	69.50	52.00
Bolsey B f3.2 ctd	61.50	37.50	25.00
Bolsey B2 f3.2 ctd	73.50	46.00	35.00
Bolsey C f3.2 ctd	109.50	74.00	55.00
Ciro 35 rfdr f4.5 ctd Synchro	44.15	29.00	20.00
Ciro 35 rfdr f3.5 ctd Synchro	49.05	33.50	23.00
Retina I f3.5		34.50	24.00
Retina IA f3.5 ctd flash		57.00	40.00
Auto Retina f2.8 ctd Xenar flash		74.50	50.00
Retina IIB f2 ctd Xenon flash		106.00	70.00
Retina IIA ctd Xenon flash	164.10	116.00	100.00
Kodak Bantam f4.5		19.95	13.00
Kodak flash Bantam f4.5	56.00	32.00	24.00
Kodak 35 f3.5 ctd rfdr Sync	86.75	54.00	40.00
Kodak Signet	92.60	64.50	50.00
Kodak Pony 135	35.75	24.50	18.00
Kodak Pony 828	31.15	22.50	16.00
Voigtl Vitessa f2 ctd. Synch	159.50	114.00	75.00
Praktica f2 ctd Biotar	118.00	89.00	70.00
Voigtl Vito II f3.5 ctd Skopar Prontor Sync	54.50	34.50	20.00
Voigtl Vito II f3.5 ctd Skopar Compur	61.25	39.50	25.00
Contessa f2.8 ctd Tessar. Synch	214.00	139.50	110.00
Ansco Karomat f2 ctd Xenon	164.10	108.00	75.00
Clarus f2.8 ctd	116.50	49.50	32.00
Minox II		58.00	40.00
Minox III	111.50	79.50	60.00
Zeiss Tenax, f3.5 ctd	66.00	42.00	32.00
Kine Exacta I f3.5 Tessar		88.00	65.00
Kine Exacta I f2 Biotar		139.00	100.00
Kine Exacta II f3.5 Tessar		114.00	85.00
Kine Exacta II f2 ctd Biotar	189.00	159.00	120.00
Kine Exacta V f3.5 ctd Tessar	199.50		110.00
Kine Exacta V f2 ctd Biotar	313.75		165.00
Kine Exacta VX f2.8 ctd Tessar Preset	269.50		145.00
Kine Exacta VX f2 ctd Biotar Preset	343.00		185.00
Exa f2.9 ctd Meritar	89.75	64.00	45.00
Exa f3.5 ctd Tessar	119.75	82.00	65.00
B & H Foton f2.2	485.00	345.00	250.00
Rectaflex f2 Xenon ctd	295.00	219.00	160.00
Iloca Stereo	125.00	77.00	40.00
Busch Verascope	269.50	189.00	140.00
Stereo Realist	159.00	109.00	92.00

REFLEX CAMERAS

	New	Used	Trade-in
Argoflex E f4.5 ctd cc		$ 29.50	$ 22.00
Argoflex EF f4.5 ctd synch filter kit	$ 66.50	39.00	30.00
Ciroflex B f3.5 ctd	75.60	46.50	35.00
Ciroflex C f3.5 ctd	97.65	59.50	50.00
Ciroflex D f3.5 flash ctd	87.90	59.50	50.00
Ciroflex E f3.5 ctd flash	117.55	79.00	60.00
Ciroflex F f3.2 ctd flash	155.90	109.00	85.00
Master Reflex f3.5 ctd Primotar, Synch.	185.00	134.00	100.00
Rollecord III f3.5 Triotar		79.00	60.00
Rollecord II A f3.5 ctd Triotar		84.00	70.00

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with f3.5 ctd lens, Flashgun & case. ($69.50) New Tele-photo Lens, sunshade, 3 filters, 6 black & white film.
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Weston Master II	$27.63	$21.95
GE DW68 ASA	21.80	17.79
GE PRI	29.25	21.95
Chronos Featherweight	22.50	17.79

Store Display Models, Guaranteed Perfect

REFLEX CAMERAS	New	Used	Trade-in
Rolleicord II B f3.5 ctd Xenar, cc		$104.00	$85.00
Rolleicord III f3.5 ctd Xenar, cc	$149.50	109.50	90.00
Auto Rolleiflex f3.5 Tessar, cc		149.00	110.00
Auto Rolleiflex II B f3.5 ctd Tessar flash, cc		189.00	140.00
Auto Rolleiflex f3.5 II B ctd Xenar flash, cc		160.00	120.00
Auto Rolleiflex II B f2.8 ctd Tessar flash, cc		229.00	185.00
Auto Rolleiflex III f3.5 ctd Tessar X-Mcc	285.00	199.00	165.00
Auto Rolleiflex III f3.5 ctd Xenar X-Mcc	265.00	179.00	140.00
Ikoflex II A f3.5 ctd Tessar, flash	176.00	119.00	90.00
Kodak Reflex I f3.5 ctd flash, cc		64.00	50.00
Kodak Reflex II f3.5 ctd flash, cc	161.00	104.00	70.00

MINIFILM CAMERA

1190 AVENUE OF AMERICAS, N. Y.
BET. 46th and 47th St.

	New	Used	Trade-in
Richoflex f3.5 ctd flash	$ 49.50	$ 39.50	$ 20.00
Primar reflex f3.5 ctd Tessar.	285.00	190.00	120.00
Hasselblad f2.8 Ektar	548.00	392.00	300.00
Graflex 2¼x3¼ f4.5 ctd Ektar (Series B)	129.50	74.50	55.00
Graflex Super D 3¼x4¼ f4.5 Ektar Auto Diaphragm F P A	246.75	148.50	100.00
Graflex Super D 4x5 f5.6 ctd. Ektar Auto Diaphragm F P A	267.25	159.50	105.00

ROLL FILM CAMERAS

	New	Used	Trade-in
Kodak Tourist II f6.3 ctd flash	$ 46.25	$ 29.50	$ 20.00
Kodak Tourist II f4.5 ctd flash	72.55	49.00	32.00
Kodak Tourist II f4.5 1/800th flash Shutter	97.40	69.50	45.00
Medalist I f3.5 ctd		89.50	75.00
Medalist II f3.5 ctd flash cc.	304.75	184.00	145.00
Super Ikonta A f3.5 ctd Tessar	162.00	99.50	75.00
Super Ikonta B f2.8 ctd Tessar Sync	236.00	159.00	110.00
Super Ikonta B f2.8 Tessar.		99.50	70.00
Super Ikonta BX 2.8 ctd Tessar Sync.	281.00	189.50	130.00
Super Ikonta C f3.5 Tessar flash	186.00	115.00	90.00
Voigtl Bessa I f4.5 ctd Vaskar	59.50	36.50	25.00
Voigtl Bessa I f3.5 ctd Skopar flash	94.50	59.00	40.00
Voigtl rfdr Bessa II f3.5 ctd Skopar flash	124.50	79.00	60.00
Voigtl rfdr Bessa II f3.5 ctd Heliar flash	168.50	104.00	80.00
Polaroid Land Camera	89.75	59.50	50.00

PRESS CAMERAS

	New	Used	Trade-in
Busch 2¼x3¼ f4.5 ctd Wollt Kalart rfdr flashgun	$206.36	$108.00	$ 75.00
Busch 4x5 f4.7 ctd Wollt Kalart rfdr flashgun	229.14	124.00	90.00
Anniversary Graphic 2¼x3¼ f4.5 rfdr, flash 3 cfh, fpa		117.00	95.00
Anniversary Graphic 3¼x4¼ f4.5 rfdr, flash 3 cfh, fpa		139.00	100.00
Anniversary Graphic 4x5 4.5 ctd rfdr, flash, 3 cfh, fpa		149.00	110.00
Pacemaker Crown Graphic 2¼x3¼, f4.5 ctd rfdr, flash cfh	239.85	159.00	125.00
Pacemaker Crown Graphic 3¼x4¼ f4.7 ctd rfdr, flash cfh	232.80	159.00	120.00
Pacemaker Crown Graphic 4x5 f4.7 ctd rfdr, flash, cfh	238.60	179.00	130.00
Pacemaker Speed Graphic equipped as above:			
2¼x3¼	279.50	184.00	140.00
3¼x4¼	284.45	199.00	140.00
4x5	292.65	204.00	150.00
Century Graphic 2¼x3¼, f4.5 ctd	108.00	69.50	55.00
Kalart 3¼x4¼, f4.7 ctd Raptar	285.00	189.00	125.00
Burke & James Press 4x5, f4.5 ctd rfdr, flash	149.95	109.00	70.00
Graphic View II 4x5 Ekalite cc	148.50	97.50	60.00
Linhof Super Technika f4.7 Xenar, rfdr	374.75	249.00	200.00

8mm CAMERAS

	New	Used	Trade-in
Revere 50, f2.8	$ 49.50		$ 24.00
Revere Ranger, f2.5	74.50	$44.50	32.00
Revere 88, f2.5	72.50	44.50	32.00
Revere c40 Mag f2.5	99.50	59.50	45.00
Revere c44 Mag Turret f2.8	129.50	74.50	60.00
Keystone K 36 f2.8	58.50	36.00	30.00
Keystone K 22 f2.5 ctd	73.00	39.50	25.00
Keystone Olympic f2.5	78.00	44.50	34.00
Keystone K 40 Mag f2.5 ctd	107.25	64.00	50.00
De Jur Citation, f2.5 ctd	77.50	46.50	35.00
De Jur Mag Embassy, f2.5 ctd	106.95	64.00	50.00
De Jur Mag Embassy Turret f1.9 ctd.	143.95	87.50	65.00
De Jur Fadematic Turret Mag f2.5 ctd	157.50	89.00	65.00
Ampro Magazine f2.5 ctd	143.50	87.50	60.00
Ampro Magazine Turret f1.9 ctd	173.50	104.00	75.00
Kodak Brownie f2.7 ctd	43.30	29.50	22.00
Kodak Reliant f2.7 ctd	82.30	49.50	38.00
Kodak Magazine f1.9 ctd	150.95	98.00	80.00
B & H Companion f2.5 ctd	79.95	49.95	40.00
B & H Sportster, f2.5 ctd	89.95	56.00	44.00
B & H Tri lens 8 f1.9 ctd	159.95	94.00	70.00
B & H Auto 8 Mag f2.5 ctd	134.95	85.00	70.00
B & H Auto 8 Mag Turret f1.9 ctd	199.95	134.00	100.00
Bolex L 8 f2.8	97.00	52.00	42.00
Bolex H 8 Leader, f1.9 ctd	276.75	184.00	140.00
Bolex Standard, f1.9 ctd	314.50	204.00	155.00
Bolex De Luxe f1.9 ctd	350.00	229.00	175.00

16mm CAMERAS

	New	Used	Trade-in
Kodak Royal, Mag f1.9 ctd	$176.25	$122.00	$ 90.00
Kodak Magazine f1.9 ctd		88.00	60.00
Kodak Cine Special II f1.9 ctd	956.20	595.00	450.00
Revere Mag f2.5 ctd	157.50	94.00	75.00
Revere Mag Turret f1.9 ctd	212.50	139.00	95.00
Keystone A 7, f3.5	76.00	44.00	30.00
Keystone A 9, f2.5	89.50	55.00	35.00
Keystone A 12, f1.9	151.00	94.00	70.00
Keystone Mag, f2.5	127.00	74.00	60.00
Keystone Mag Turret, f1.9	176.50	112.00	85.00
Bolex H-16 Leader f1.9 ctd	279.00	189.00	145.00
Bolex H-16 Standard f1.9 ctd	317.50	209.00	165.00
Bolex H-16 De Luxe f1.9 ctd	353.00	234.00	185.00
B & H Autoload f2.5	189.95	109.00	85.00
B & H Autoload 200, f1.9	214.95	142.00	110.00

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Deluxe carrying case $8.50

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Direct view focusing, flash & Stobe synch Zeiss Biotar f2 T ctd, delayed action. Reg. $160.00.
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With Preset Diaphragm **249.00**
Carrying Case..... 12.50

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Complete with panhead, adjustable legs.
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Without elevating crank.
2 Section **$13.50**, reg. $19.50 Value
3 Section **$18.90**, reg. 26.00 Value

	New	Used	Trade-in
B & H Automaster Turret f1.9	$274.95	$139.00	$110.00
B & H Automaster Turret 200, f1.9	259.95	189.00	130.00
B & H 70D Turret f1.9		134.00	90.00
B & H 70DA Turret f1.9 ctd		188.00	135.00
B & H 70 DL Turret f1.9 ctd	369.95	269.00	200.00
Pathe Super 16 Turret	395.00	289.00	210.00
Auricon Cine Voice	695.00	595.00	475.00

8mm & 16mm PROJECTORS

	New	Used	Trade-in
Revere 85 DL cc	$124.50	$ 67.50	$ 50.00
Revere 90 cc	159.50	89.50	70.00
Keystone R8 500 watt	89.75	59.00	40.00
Keystone K68 750 watt	114.50	63.00	50.00
Keystone K109 750 watt cc	159.50	99.00	80.00
De Jur 750	149.50	88.00	65.00
De Jur 1000	177.50	109.00	85.00
B & H Regent	169.95	109.00	85.00
Bolex M-8 500 watt	176.50	109.50	80.00
Bolex G 8-16	353.00	245.00	185.00
Keystone A82 750 watt	119.50	79.50	60.00
Keystone K160 750 watt	139.50	89.50	70.00
Keystone 161 750 watt cc	159.50	99.00	80.00
Revere 750 W	160.00	99.00	80.00
B & H Diplomat	281.95	169.00	130.00
Ampro Imperial	219.50	114.00	80.00
Revere Sound Proj	325.00	209.00	150.00

SOUND PROJECTORS

	New	Used	Trade-in
Argus PB 100W	$ 28.25	$ 18.00	$ 13.00
Argus PB 150W	32.03	19.50	14.00
Argus PB 200W	34.86	23.95	18.00
Argus PB 200W Blower case	49.50	33.00	24.00
Golde NuManumatic 300W Blower	58.50	37.50	30.00
Golde Reflex 300W Blower case	89.70	54.50	40.00
Golde Master 500W	76.65	49.50	30.00
TDC A1 150W	34.75	23.50	15.00
TDC A2 200W	38.75	24.95	17.00
TDC A3 200W Blower Cooled	48.75	29.50	20.00
TDC RN 150W	56.50	37.50	24.00
TDC Mainliner	58.50	38.50	25.00
TDC Stereo 2-500W Lamps	179.50	117.00	80.00
SVE Skyline 200W	39.95	25.50	18.00

KODAK AUTOMATIC Retina IIA CAMERA

- Built-in Synchro
- Compur Rapid Shutter
- Cpld. Rfdr.
- Automatic Shutter Cocking Device
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Complete Bolsey B2 Outfit!!
F3.2 Ctd. $73.50 E.R. Case, Flashgun, Sunshade and 3 Filters.

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SVE Instructor 300W	89.50	59.00	40.00
Kodaslide No. 1	29.50	19.50	13.00
Kodaslide No. 2	49.50	32.00	22.00
Kodaslide Merit	24.50	16.50	10.00
Kodaslide Table Viewer 4X	47.50	28.00	20.00
LaBelle No 500	87.50	54.00	40.00

LEICA CONTAX KINE ACCESSORIES

FOR LEICA

	New	Used	Trade-in
Leica Manual	$ 5.00		
Leitz Imarect Finder	42.00	$ 32.00	$ 22.00
Nooky Attachment	39.00	29.00	20.00
Leica Flashgun III F	24.00		12.00
Leitz Mirror Reflex Housing	150.00	119.00	75.00
28mm f6.3 W.A. Hector	108.80	79.00	55.00
35mm f3.5 ctd Elmar		61.50	40.00
35mm f3.5 Summaron	122.40	76.00	65.00
35mm f2.8 ctd Biogan		119.00	80.00
50mm f3.5 ctd Elmar	81.60	49.50	35.00
50mm f2 ctd Summitar	187.00	109.00	80.00
50mm f1.5 ctd Summarit	272.00	169.00	130.00
85mm f1.5 ctd Summarex	459.00	335.00	260.00
90mm f4 ctd Elmar		69.50	45.00
90mm f4 ctd Elmar Chrome	132.60	79.50	65.00
135mm f4.5 ctd Hektor		99.50	75.00
135mm f4.5 ctd Hektor Chrome	165.00	129.50	90.00

FOR CONTAX

	New	Used	Trade-in
Revolving Universal Finder	$ 84.00	$ 54.00	$ 35.00
28mm f8 Tessar		69.50	50.00
35mm f2.8 ctd Biogan	245.00	96.00	70.00
85mm f2 ctd Sonnar	292.00	132.50	100.00
135mm f4 ctd Sonnar	170.00	99.00	75.00

FOR KINE EXACTA

	New	Used	Trade-in
40mm f4.5 ctd Tessar W.A.	$ 99.00	$ 59.50	$ 40.00
35mm f2.5 Retrofocus W.A.	99.50	59.50	40.00
135mm f4 ctd Triotar	75.00	54.00	35.00
180mm f5.5 ctd Tele Xenar	83.50	58.00	40.00
Pentagon Prism Finder for Kine I or II	48.00	34.50	25.00
Penta Prism Finder for Kine V, VX or Exa	68.50	49.50	35.00

METERS

	New	Used	Trade-in
GE PR 30 Mascot	$ 15.75	$ 9.95	$ 6.00
GE DW 68	21.80	12.50	8.00
GE PR 1	29.25	16.95	12.00
Weston Cadet	18.28	12.50	8.00
Weston Master II	27.63	16.95	11.00
Norwood	32.50	19.95	12.00
Leica Meter	24.00		11.00
Chronos	22.00	13.00	8.00
De Jur	24.50	14.00	9.00

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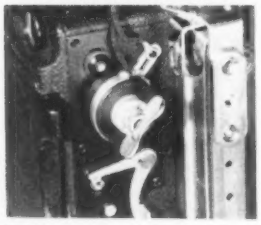
FLASH SYNCHRONIZERS

(Including Flashing Units)

BACO FOCAL PLANE SYNCHRONIZER



Model A for either Graphic or Graflex cameras, comes in kit form to be installed by any service department; positive synchronization with focal-plane shutter with either G-E 31 or Superflash 2A flashbulbs used at any speed above the actual duration of the flash.

Model B is similar to above but may be installed by anyone; comes as a complete unit and attaches to the winding key of the camera. Price of each, less battery case or reflector, $15.

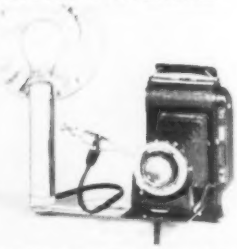
MFR. Baco Accessories Co.

BUSCH B-C

For solenoid operation; also for all cameras with built-in synchronization; B-C unit using condenser and 22½-volt battery; screw lamp socket; switch retards opening of shutter until lamp is at peak; lamp ejector; multiple outlets for extensions, solenoid, synchro shutter and focusing light; focusing light operates from independent penlife cells; fires seven lamps in series on 100 feet of cord. Price on request. Complete accessories available.

MFR., Busch Camera Corp.

C.O.C. UNIVERSAL



Available in 8 models to fit most single and double-action shutters with cable-release socket; adjustable, aplanatic reflector; battery case with extension outlet; mechanical synchronization; Model 10-A for cameras with cable-release sockets, complete with Universal tripper, $10.90 including tax; Model 10-A11, with tripper on battery case; for Leica, $13.90; for others, $12.90; Model 10-B complete with accessory cable for Kodak cameras with Pre-synchronized shutters, Land camera, Ciro-flex, Ansco Speedex and Titan, $8.90 including tax; same price for Model 10-C designed for cameras with Prontor shutters, Model 10-D for Kine Exaktas, and Model 10-E for Robot cameras. Model 10-CC, for all Compur Rapid and Prontor S shutters with built-in synch., $9.80, inc. tax.

MFR., Camera Optics Mfg. Corp.

COMPRO-FLASH

Internal built-in synchronization for both electronic flash units and standard flash lamps. Installations offered for Compur and Compur Rapid, Wollensak Rapax and Alphax, and Ilex shutters, including both rim-set and dial-set types; the system couples directly to the blade actuator linkage of the shutter and gives consistent results with low contact resistance; all work done at the factory. Price of installation with cord and plug, $18. Accessories include 2-cell flash holder, long cords, and 7-inch reflector.

MFR. Compro-Flash.

FLASHFLEX

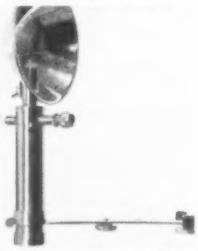
For Rolleiflex and Rolleicord cameras with built-in flash synchronization; B-C unit using condenser and 22½-volt battery; 5¼-inch reflector; special bracket mounts on bayonet fitting of viewing lens; uses bayonet lamps; lamp ejector; extension outlet; cord. Price, less battery, $21.80; battery, $1.15. Adapter for conventional mounting of unit to other synchronized cameras with accessory clips, $2.95. Unit available with conventional mounting bracket for original price.

DIST., Burleigh Brooks Co.

FLASH KING

Model EO. Synchronizes with between-the-lens shutters at all speeds with standard wire-type lamps and body-release type cameras such as Retina and Argoflex; synchronizes by means of mechanical cocking and solenoid tripping device; adjustable bracket with supporting clips; 5½-inch reflector; remote control outlet

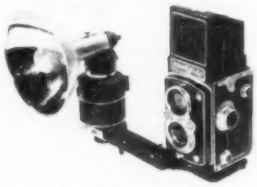
and extension outlet. Price, $22.50 including tax. Accessories include remote control cord and brackets.



Model SM. For use with Eastman self-cocking shutters; adapted to focal-plane shutters of Contax, Leica, and Foth Derby at recommended speeds from 1/100 to 1/1250 sec.; uses two medium-sized batteries; 5-inch reflector; for midget bulbs; slip-in bayonet socket; synchronizes by means of a toggle action switch having a zero time lag. Price, $17.50 including tax.

MFR. Western Photographic Mfg. Co.

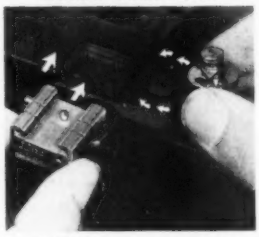
FLASH-TRONIC



Mechanical synchronizer; models designed for Automatic Rolleiflex, Contax, and Leica cameras; batteryless unit using a-c generator; recommended speeds with Leica shutter, 1/40 to 1/1000 sec.; with Contax, 1/25, 1/50, and 1/125 sec. and faster; 2 reflectors available as accessories; unit generates own current. Price, $59.50 including tax for Rolleiflex, Leica, or Contax model. Accessories include reflectors, multiple flash extension adaptors, hand cable releases, etc.

MFR., Technical Oil Tool Corp.

GEISS-KONTAKT



For all Leica cameras; mechanical synchronizer; recommended for speeds up to 1/500 sec.; for every type of flash lamp and electronic flash unit; fits accessory clip of Leica camera, and will accept all accessories designed for use with the accessory clip; installed by user; utilizes any flashgun accepting Kalart PC or Heiland 62 cords. Price, $11.95.

MFR., Geiss-America

GRAFLITE FLASH SYNCHRONIZERS

Model 2726 for between-the-lens shutters; 2-cell battery case; 5-inch reflector; high resistance, inertia-type solenoid, 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector; micromatic switch; right or left mounting; heavy duty clamp; remote control outlet; provision for multiple battery connections. Price with solenoid, mount, and connecting cord, $39.15.

Model 2728 same as 2726, but with 7-inch reflector for standard screw-base lamps. Price, $38.15.

Model 2736 same as Model 2726, but with 3-cell battery case. Price, $40.65.

Model 2738 same as Model 2728, but with 3-cell battery case. Price, $39.65. Accessories for Graflite synchronizers include 5 and 7-inch reflectors, extension tubes, connecting cords, side-lighting units, mounting brackets, safety shield for 5-inch reflectors, diffusion shield for 5-inch reflector.

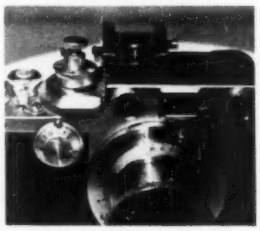
MFR., Graflex, Inc.

JET

Internal synchronizer installation; for all shutters except focal plane shutter on Korelle; for all types of flash lamps; does not interfere with normal camera or shutter operation; ASA fitting installed. Price on request.

MFR., Camera Craft, Inc.

HAKOSYN



For Leica cameras; synchronizes at speeds of 1/20 or 1/30 sec., 1/60 sec., 1/100 sec., and strobe; speeds can be changed without removing unit. Price, $7.50.

DIST., A. G. Photo Distributors.

HEILAND

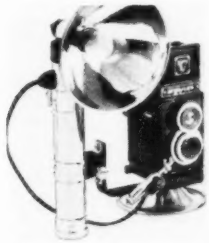
Pressmaster. Synchronizes with between-the-lens shutters from 1/25 to 1/500 sec.; adaptable to focal plane shutters on Crown and Speed Graphic, and similar type cameras; 3-cell case using size D batteries; 7-inch Lumenar-type 47 reflector; self-centering socket with reflector adjustable for all standard flashbulbs. Price, with battery-case E clamp, $46.52, inc. F. E. T., with heavy duty mounts, $50.54, inc. F. E. T.

Press Model S. Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; adaptable

to focal plane shutters on Speed-Graphic type cameras; 3-cell battery case using size D batteries; choice of reflectors. Prices vary from $41 to $46.85, depending upon the reflector. Accessories same as above.

Model R-II. For Kodak Retina I and II, and Compur Rapid shutters; magnetic synchronizer; 3-cell unit for use with between-the-lens shutters at speeds up to 1/250 sec.; Heiland 45A 6-inch reflector; bayonet socket; complete with clamp, bracket, coil and cord. Price, $49.60. Sidelight and reflectors available.

Model K. For use with cock-and-trip shutters and cable release shutters; 3-cell case using size D batteries; choice of reflectors. Prices vary from $39.90 to $41.70, depending upon reflector. Accessories same as above.



Model KD. For use with Argoflex, Ciroflex, and self-cocking shutters; features same as Model K. Price, with battery case, battery case clamp, reflex bracket, coil with special mounting bridge, varies from $42.38 to $44.97, inc. F. E. T., depending upon reflector.

Press Model SR. For use with all f/3.5 Rollei cameras; can be used with similar type cameras with some adaptations; 3-cell battery case; uses size D batteries; battery case clamp; universal reflex bracket; two types of coils and cords. Price varies from $48.30 to $50.70, depending upon reflector. Accessories same as other models.

Press Model 2.8 SR. Same as above, except for Rolleiflex with f/2.8 lens; optional 7-inch Lumenar or 6-inch 45A reflector. Price, $54.68. Sidelight units, reflectors and Stroboflash units available.

Model KB. For use with the Super Ikonta B and BX models; 3-cell battery case; uses size D batteries. Price varies from $44.10 to $46.50, depending upon reflector. Accessories available, the same as above.

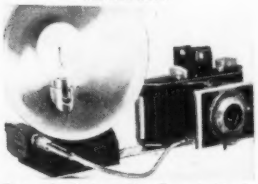
MFR., Heiland Research Corp.

JEN FLASH TYPE II CAPTOR

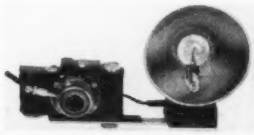
Mechanical synchronizer for Leicas, Nos. 30,000 to 365,000, Nicca, Kardon, Canon, Contax-S and Kine Exacta cameras; recommended speeds for focal-plane synchronization, 1/60 to 1/1000 sec.; B-C unit using condenser and 1 22½-volt battery; 5-inch paraboloidal reflector; bayonet lamp socket; installed by user. Price, $31.95. Extensions, reflectors and cables available.

MFR., Jen Products, Inc.

KALART



Compak Automatic Speed Flash. For use with Compur and other between-the-lens shutters; uses midget bayonet flashbulbs only, includes Battery-Flector unit; built-in Safety-First test light; 2 size C batteries; 5-inch concentrating reflector; patented bulb ejector; extension bracket; lightweight, pocket-sized unit. Price, $17.75. Accessories include cables, adapters, and fittings.

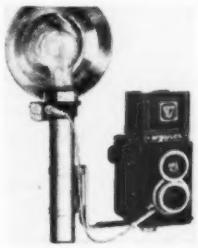


Compak Passive Speed Flash. For cameras having pre-set automatic self-cocking shutters; available without tripper for use with shutters having built-in synchronization; has same general make-up as the above model; Complete with Passive synchronizing unit, Battery-Flector unit with two standard C-size batteries, built-in Safety-First test light, and extension bracket. Price, $8.95. Accessories include Model PSW synchronizer unit for self-setting Wollensak shutters, and PWA adapter for Ansco Viking camera.

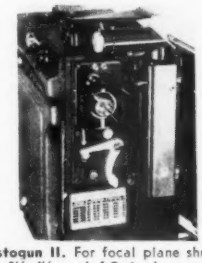
B-C Multiflash. For cameras with built-in flash synchronization; models available for non-synch shutters; B-C unit using condenser and 1 22½-volt battery; will flash up to six lamps with extensions totaling 250 feet; bayonet lamp socket; same construction and appearance as Compak Speed Flash; complete choice of brackets and connecting cords available; extensions available. Prices start at $14.30, depending on bracket and cord; extension units, $9.85.

DeLuxe Compak. Same features as Compak Passive, except has cylindrical battery case; uses 2 1½-volt batteries; test lamp; bulb ejector; bayonet lamp socket; for same cameras and shutters as Compak Passive. Price, with bracket, depends on selection of cord.

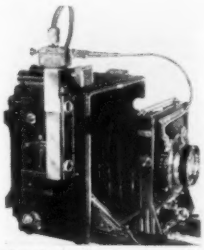
Master Automatic. Synchronizes with Compur or other between-the-lens shutters at all speeds; can be satisfactorily adapted to focal plane shutters on the Contax, Leica and most miniature cameras; recommended speed with focal plane shutter, 1/200 sec. or faster; available without tripper for use with shutters having built-in synchronization; has 3 standard size C batteries; 6-inch paraplanatic reflector; adjustable for various bulb



sizes; unit opens the shutter mechanically, using batteries only to flash the bulb; Focuspot outlet. Price complete, $24.60. Accessories include reflector for midget flashbulbs, Kalite flash extension unit, couplings, adapters, and fittings.



Sistoqun II. For focal plane shutters on 3¼x4¼ and 4x5 Anniversary and old-style Graphic cameras; synchronized speeds up to 1/1000 sec.; use with G-E 31 and Superflash 2A flashbulbs; fits under winding knob of focal plane shutter; can be used with same battery case and reflector as used with front shutter synchronizer. Price, complete with screws for installation and connecting cord, $12.50.

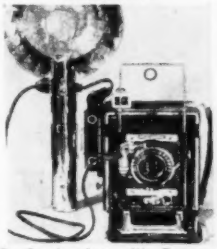


Synchrostrob. Synchronizes with between-the-lens shutters up to 1/100 sec., with instantaneous firing electronic flash units. Eliminates open-shut flash shots with electronic flash units; operates mechanically with no battery case necessary; automatically opens the shutter first and then fires the flash unit at optimum opening of shutter. Price complete, $14.25.

Master Passive. For use with cameras having pre-set, automatic self-setting shutters; available without tripper for use with shutters having built-in synchronization; 3 size C batteries; 6-inch paraplanatic reflector; standard lamp socket; outlet for using extension cord for multiple flash. Complete with Passive synchronizing unit, battery case with 3 batteries, and angle extension bracket. Price, $15.25. Accessories include synchronizing unit for self-cocking Wollensak shutters, and adapter for Ansco Viking camera; concentrating reflector for midget flashbulbs.

MFR. The Kalart Co.

KINGLIFE



S-G. Synchronizes with Compur or other between-the-lens shutters from 1/50 to 1/400 sec.; available without tripper for use with shutters having built-in synchronization; 3 standard batteries; 6-inch reflector adjustable for various bulb sizes; standard socket; adjustable case clamp; focus spot outlet; remote control and extension flash outlets on battery case. Price, complete, $36. Complete line of accessories.

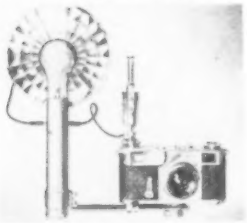
King-B. Synchronizes with Compur and other between-the-lens shutters from 1/50 to 1/400 sec.; has 3 standard batteries in 3-cell chrome-plated case; bayonet safety base; adjustable case clamp; 6-inch reflector; molded cords; special tripper bracket. Price, $30. Complete line of accessories available.

Speed R. For use with between-the-lens shutters; has same make-up as the above model; camera must be shipped to factory for installation. Complete with 3-cell battery case, safety base, adjustable case clamp, and 6-inch reflector, price is $40. All accessories available.
MFR., Kinglife Products Corp.

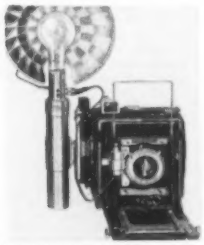
KODAK EKTALUX B-C

For all cameras, with or without built-in flash synchronization; uses condenser and 22½-volt battery; 5-inch parabolic reflector; accepts screw base or bayonet base lamps; pistol grip battery case; lamp ejector; bracket mounting; can be adapted for use with all solenoids or built-in synchronization fittings. Price, with standard bracket and 15-inch connecting cord with bayonet fitting, $29.75. Available accessories include solenoids, cords, synchronizer switch, remote release, extension units, brackets for various cameras, extension cords, adapters for solenoids and fittings.
MFR., Eastman Kodak Co.

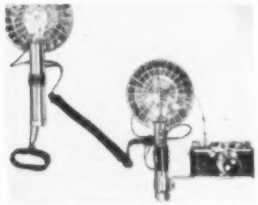
MENDELSOHN



Custom Model. Magnetic synchronizer for all speeds with between-the-lens shutters; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various bulb sizes; bayonet and standard lamp socket; extension and remote control outlets; no adjustments required; designed to operate on the body release of the camera. Price, Model E1040 for Contax, $35.50; Model 1041M for Leica, and Model 1048 for Perfex, $40.

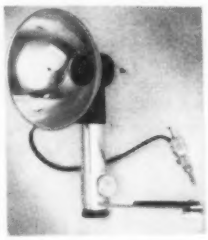


Model E-4. Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/500 sec.; uses three size D batteries; 7-inch aplanatic Twinflector; adjustable for various bulb sizes; combination bayonet and standard socket; presynchronized for all shutter speeds. Price, $26.50. Accessories include remote control, multiflash, multiple reflector.



E-1000 Series. Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/1000 sec.; uses two batteries; 5-inch Twinflector for flat lighting; adjustable for various bulb sizes; combination bayonet and standard socket; pre-synchronized for all shutter speeds. Price, $26.50. Accessories available same as above.

PRACO



Duo-Flector. Mechanical synchronizer and flashing unit for all cameras except those having focal-plane shutters; uses 2 medium batteries; 3-cell case available; 5-inch reflector, adjustable for either screw base or bayonet base lamps; without adapter; bulb ejector; extension outlet. Model A for Argoflex, and Ciro-flex cameras with Alphax shutters, $15.45; Model B for all other non-synch shutters, $15.45; for cameras with synchronized shutters, $14.25; 3-cell cases for above models, $16.20 and $14.95.

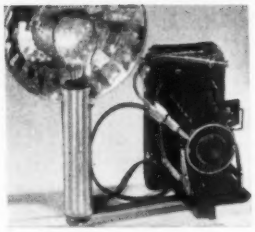
Flashmaker. Mechanical synchronizer for between-the-lens shutters, for speeds from 1/25 to 1/250 sec.; uses 2 medium batteries; 5-inch reflector; screw base lamp socket; adapter for bayonet base lamps; tripper allows use of delayed-action timer or cable release; bulb ejector. Price, $8; de luxe model, $9.70.
MFR., Praco Photo Products Co., Inc.

RAY-O-FLASH SYNCHROMAT

Mechanical plunger-type synchronizer made of transparent Lucite material; utilizes plunger for connection to any shutter using cable release; adjustable by the user; outlet for connection to flashgun. Price, $12.50 including tax.
MFR., American Cinefoto Corp.

SERVICE

Flashmaker. Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; uses two medium batteries; 5-inch polished, faceted reflector; adjustable for various bulb sizes; standard socket; bulb ejector.



Price, $7.97 including tax. Accessories include midget bulb adapter. Deluxe model with extension flash outlet, $9.70.

Service Model for the Brownie Hawkeye camera; mechanical synchronization with camera set at 1; same features as Snapflash model, but has encircling clamp for the camera. Price, $4.40.

Mechanical synchronizer for between-the-lens shutters set at Instantaneous; uses 2 Type C batteries; 5-inch multi-faceted reflector; adjustable for various bulb sizes; standard lamp socket; synchronizes with most box cameras. Price, $4.40.
MFR., Service Photo Suppliers, Inc.

SIMS

Model D-2. For use with Leica, Kardon, Nicca, Canon, Leotax and Tower cameras; synchronizes with focal plane shutter from 1/20 to 1/1000 sec.; uses four penlight battery cells, for 6-volt operation; 4½-inch spun aluminum with etched, satin surface reflector; standard socket; slips on camera accessory clip; case contains warning pilot light and safety switch. Price, $17.50 including tax.

Special. Identical to above, but for use with any Leica camera of series I, A, C, or E; must be fitted at factory. Price, including installation, $20.50, inc. tax.

Series D, Model BRC. Same external appearance as Model D-2; case contains 1 22½ volt battery, 100 mfd condenser, and 5M resistor; no pilot light; safety switch. Available on special order only. Price, with battery, $37.50, inc. tax.
MFR., R. A. Simerl Mfg. Co.

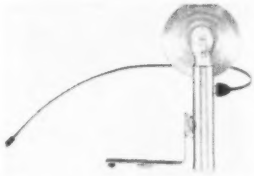
SMEATON

For Speed Graphic and Graflex cameras; synchronized with curtain shutter at factory. Price for installation, $19.50 complete.
MFR., Smeaton Company

SPECTRA SYNCH

Electrical contact synchronizer for Leica and Contax cameras; screws into body release guard threads; recommended for focal-plane shutter speeds up to 1/1000 sec.; does not interfere with any normal camera operations; may be left in position permanently; threaded for use with Leica cable releases. Price, $17.50, inc. tax.
MFR., Photo Research Corp.

STERLING-HOWARD SOL-LITE



Mechanical synchronizer for between-the-lens shutters at speeds from 1/25 to 1/200 sec.; for all cameras with built-in synchronization or cable release sockets; uses 2 Type D batteries; 5-inch aplanatic reflector adjustable for various bulb sizes; standard lamp socket. Price, $8.95 including tax.
DIST., Sterling-Howard Corp.

FLASHING UNITS

AGILUX

For cameras with built-in synchronization; in between-the-lens shutters; uses 3 type C batteries; 5-inch reflector; for bayonet base lamps; built-in diffusion screen; ejection clip; adaptable for use with passive trippers. Price, $9.95.
DIST., General Photographic Supply Co.

BOWER PHOTO FLASH UNIT

For use with Bower cameras and all other cameras with between-the-lens shutters with built-in flash synchronization; uses two C batteries; 5-inch

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PRAKTICA

Features 9 speed focal plane shutter with speeds to 1/500th. Interchangeable lenses, built-in synchronization. Built-in double exposure prevention, automatic film transport.

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LEICA IIIF

Latest Model of this fine camera boasts full built-in synchronization.

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Factory Coated LEICA LENSES

f:3.5 35mm Summaron	$ 81.25
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f:1.5 85mm Summarex	312.50

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Fully Guaranteed—one of the finest cameras ever made! Built-in prismatic reflex finder—eliminates parallax, gives full-size upright view. Synchronized focal plane shutter, 1 sec. to 1/1000th, self timer.

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f:4.5 40mm Wide Angle		69.50
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An extremely good buy in wide angle anastigmats, in FAMOUS PRONTOR II Flash Shutter. Speeds to 1/200th, synchronized. Factory ctd. lens. Cable release socket. Delayed action Self-timer.

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Sturdy All-metal camera, telescoping front, three speed shutter, f:7.7 Achromat lens, eye-level viewfinder, 12 shots on 120 film.

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Focus from Infinity to Closeup WITHOUT EXTENSION TUBES. Full range focusing without tubes from infinity to close-ups in original size of subject with 105mm lens. With 50mm lens, can be used for close-ups from scale of 1:1 to 3:1.

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EXTENSION TUBES

for Kine Exakta cameras
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reflector; for bayonet base lamps; bracket, accessory clip fitting; cords to fit any contacts. Price, complete, less batteries, $6; same, less bracket, $5.40; cord, $1.50.
DIST., Saul Bower, Inc.

C.O.C. STANDARD

Nine models available for Ansco Pioneer, Rediflex, and Flash Clipper, Brownie Reflex, Kodak Duaflex, Target Brownie, Kodak cameras with built-in synchronization, and Spartus Full-Vue; includes aplanatic reflector; battery case; connecting cord; camera bracket. Prices range from $3.25 to $6.12.
MFR., Camera Optics Mfg. Corp.

FERRANIA FOLDING FLASHGUN

Model A. For most Prontor-S and Compur Rapid shutters with built-in flash synchronization; uses 2 C cells; 5-inch parabolic reflector; bayonet lamp socket; lamp ejector; rotating reflector; connector cord; hinged reflector mount permits folding of unit. Price, $6.50, inc. batteries.

Model B. For use with any camera having built-in flash synchronization; uses 2 C cells or B-C insert with condenser and 22½-volt battery; 5-inch parabolic reflector; bayonet lamp socket; adaptable for use with screw base lamps; rotating reflector; lamp ejector; extension flash outlet; hinged reflector mount permits folding of unit. Price, less connecting cord, but with 2 C cells, $8.50; connecting cords, from $2. Available accessories included extensions and connecting cords.
DIST., G. A. Buttafarri.

FINELUX

For shutters with built-in synchronization; uses 2 C batteries; made of stainless steel; reflector folds into battery case when not in use; fits accessory clip; uses cables for ASA flash shutters, Compur Rapid or Prontor S synchronized shutters, or Finetta camera; leather case available. Price, including cable, $8.95; arm bracket, $1; leather case, $1.
DIST., Photographic Importing & Distributing Corp.

FLASH KING CA

For shutters with built-in flash synchronization; battery case is 3 inches long, 1¼-inch diameter; adjustable 5½-inch reflector; uses 3 penlight batteries; socket adjustable to midget and standard base lamps; unit screws in camera tripod socket; no bracket required. Price, $8.95 including tax.
MFR., Western Photographic Mfg. Co.

GRAFLITE FLASHING UNITS

For use with Graphic-Graflex cameras and others having built-in flash synchronization; lightweight battery case; 5 or 7-inch reflectors; 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector; micromatic switch; right or left mounting; clamp; remote control outlet; provision for multiple battery case connections; right angle and platform brackets for use with miniature and reflex cameras having built-in synchronization. Prices: Model 2725, 2-cell case and 5-inch reflector, $25.95; Model 2727, 2-cell case, 7-inch reflector, connecting cord, $24.95; Model 2735, 3-cell case, 5-inch reflector, $27.45; Model 2737, 3-cell case, 7-inch reflector, $26.45.
MFR., Graflex, Inc.

HEILAND

Synchromite. For all shutters with built-in synchronization; battery case; 2 batteries; 5-inch reflector; bayonet lamp socket; polarized shutter outlet; extension outlet; bulb ejector; cord; adjustable camera bracket. Price, $10.95.

Synchro-Special. For all shutters with built-in synchronization; chrome battery case; 2 D batteries; 6-inch reflector; screw base lamp socket; polarized shutter outlet; 2 extension outlets; bulb ejector; cord. Price, $15.45, inc. tax. Sidelight unit and optional reflectors available.

Synchro - Custom. For Ciro - flex, Ansco Reflex, Rolleiflex, Rolleicord, Kodak 35, Kodak Reflex, Kodak Medalist II, Kine Exacta, and Polaroid Land cameras; 2 D batteries; adjustable reflectors; bulb ejector; 2 extension outlets; custom-fitted mounting bracket; polarized shutter cord. Prices, from $19.95 to $21.95.

HEILAND SYNCHRO-MITE REFLEX

Same as above, but for reflex cameras; custom reflex bracket and 62-I Synchro Cord. Price, $11.95.
MFR., Heiland Research Corp.

JEN B-C POCKET FLASH

For use with any camera having built-in flash synchronization; B-C unit with condenser and 22½-volt battery; 5-inch parabolic reflector; self-shorting extension outlet; for midget flash lamps; for use on accessory clips; can be fitted with accessory shoe. Price complete, $14.95. Available accessories include extension, bracket, cables, mounting shoe.
MFR., Jen Products, Inc.

KALART COMPAK

DeLuxe. For shutters with built-in flash synchronization; battery case; test lamp; 2 medium cells; bulb ejector; cords available; same reflector as Compak Flash Unit. Price, $7.95.
Model CFK for use with Kodak and other cameras with built-in synchronization; uses 2 standard size C batteries; special 5-inch concentrating reflector; built-in Safety-First test lamp; for use with midget bulbs; bulb ejector; bayonet connecting cord; complete with Battery-Flector, extension bracket, $8.95 including tax.
Model CFPC for Zeiss, Voigtlander, Retina II, Monte Carlo and other European cameras with built-in synchronization; same equipment as Model CFK. Price, $7.95.
Model CFL for Polaroid Land camera only; attaches to accessory clip on camera with special bracket; same equipment as above model. Price, $7.95.
Model CFP for use with Zeiss, Voigtlander, and Monte Carlo cameras. Similar to Model CFK. Price, $7.95.
Model CFT for Kodak Tourist f/4.5 and f/5.6 only; same equipment as above. Price, $7.95.

KALART MASTER

Model MFK for use with cameras with built-in synchronization; uses three standard size C batteries; 6-inch paraplanatic reflector; adjustable for various bulbs; special bayonet connecting cord; extension outlet. Price, including Master battery case with three standard cell batteries, angle extension bracket, etc. $14.30.

Model MFPC for Zeiss, Voigtlander, Retina I & II, Monte Carlo and other European cameras with built-in synchronization. Similar to above model. Price, $14.30.

Model MFUG-1 for use with press-type cameras with built-in synchronization; similar to the above model. Price, complete with Push Button Body Release, $14.30.
MFR. The Kalart Co.

KODAK FLASHOLDER

Designed for cameras with shutters having built-in synchronization; holds two type C batteries; lamp-ejector button. Price, $9.50 plus tax. Accessories include extension units, and extension cords.
MFR., Eastman Kodak Co.

KINGLIFE

DeLuxe Flasher. For use with shutters having built-in synchronization; 2-cell chrome plated case; bayonet safety base; molded cords available to fit all type of built-in synchronization; 5-inch reflector. Price, $16.75.

Double-O. For use with shutters having built-in synchronization; 2-cell chrome plated battery case; accepts either bayonet or screw-base lamps without adapter; focusing reflector; cords available for all shutter contacts; lamp ejector. Price, $15.75; model with passive attachment for non-synch shutters, $17.85.

Midget Liteweight. For use with shutters having built-in synchronization; 2-cell battery case; accepts bayonet-base lamps; 5-inch parabolic reflector; cord for A.S.A. bayonet-type contact; other cords available; lamp ejector. Price, $10.95; model with passive attachment for non-synch shutters, $12.95.

Liteweight. For cameras having shutters with built-in synchronization; battery case; reflector; connection cord for Kodak cameras; camera bracket. Price, $4.40.

Life Junior Flasher. For shutters having built-in synchronization; battery case; 5-inch reflector for standard lamps; connecting cord to fit all Kodak flash shutters; standard outlet for extension flash; camera bracket. Price, $16.75.

Model L200. For Kodak 35, Medalist, Vigilant, Reflex II, 620, Polaroid Land, and other cameras with built-in flash synchronization; 6-inch reflector; uses screw base lamps; extension outlet; all-metal; cord. Price, $16.75 to $21.95. Midget lamp adapter available.

Model M101. For cameras equipped with shutters having built-in flash synchronization; cords to fit all fittings; all-metal. Price, $10.95.

Pistolgrip. For all cameras with built-in flash synchronization; 5-inch reflector; uses 2 penlite batteries; for midget flash lamps; adjustable brackets for all cameras; lamp ejector; interchangeable cords. Price, $12.95.
MFR., Kinglife Products Corp.

MENDELSOHN

Flasher E. For use with all shutters having built-in synchronization; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various lamp sizes; bayonet and standard sockets; extension outlets; camera bracket; connecting cord. Prices range from $15.75 to $21.50 including tax.

Folding Speedgun Series 1200. Model 1215 for Ansco, Ciro-flex, Kodak, Polaroid Land cameras; Model 1217 for Exacta; Model 1235 for Monte Carlo and Prontor II; and Model 1235A for Compur and Prontor S shutters; uses 3 size C batteries; 5-inch aplanatic reflector; bayonet lamp socket; folding bracket; plug outlet; interchangeable cords. Price, $15 including tax.

Folding Speedgun Series 1400. Four models available as in Series 1200 and for same cameras; uses 3 size D batteries; 7-inch aplanatic reflector; stand lamp socket; folding bracket. Price, $15 including tax.

MENDELSOHN UNIVERSAL JUNIOR

Universal Junior. For synchronized and non-synchronized shutters; aplanatic or parabolic reflector; remote control and extension outlet; cords available for all shutters; tripper switches available; bracket. Price, $15.75 including tax.
MFR., Mendelsohn Speedgun Co., Inc.

MORTON MONOFLASH

For cameras with built-in synchronization; 5-inch reflector; bayonet lamp socket; 2 Penlite batteries; all-metal construction. Price, $7.95 including tax.
MFR., The Morton Co.

PRACO FLASH UNIT

For cameras with built-in synchronization; 2 medium batteries; 5-inch reflector; adjustable reflector; standard lamp socket; bulb ejector. Price depends on unit needed for particular cameras, on request.

PRACO B-C FLASH

Battery capacitor flashing unit for use with all cameras having built-in synchronization; uses 22½-volt battery and electrolytic condenser; 5-inch polished parabolic reflector; reflector adjustable for bulb sizes; standard lamp socket; extension outlet; polarized shutter outlet; available with standard ASA or Prontor-S type connecting cords. Price, for pre-synchronized cameras, $12.45; for non-synchronized, $13.25; with Duo-Flector head for pre-synchronized cameras, $17.75; with Duo-Flector head for non-synchronized cameras, $19.
MFR., Praco Photo Products Co., Inc.

SERVICE FLASH UNITS

Model for use only with the Kodak Duaflex camera; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket. Price, $4.40.

Model for use with Kodak having built-in synchronization. Price, $7.20. Accessories available include midget bulb and adapter.

Brownie Reflex Model similar to above. For use with the Brownie Reflex only. Price, $4.40.

Ansco Pioneer Model for use with the Pioneer camera only; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket; bracket fit over top of camera. Price, $3.25.

Ansco Flash Clipper Model similar to above. For use with Flash Clipper only. Price, $4.42 including tax.

Model for Brownie Flash 620 only. Price, $3.85.

Model for use with the Ansco Rediflex only. Similar to the above model. Price, $3.85.

Model for use with Kodak pre-synchronized cameras, for use with all shutters having ASA type fittings; uses 2 C cells; for screw base lamps; 5-inch reflector; cord; adjustable reflector. Price, $7.20. Midget lamp adapter available.
MFR., Service Photo Supplies, Inc.

SIMS, SERIES E

Model 1c. For use with all cameras having synchronized Compur or Prontor shutters and accessory clip on body; uses 4 penlite cells; 5-inch parabolic reflector; bayonet lamp socket; lamp ejector; extension flash outlets. Price, $10.95.

Model 2a. Same features as above, but for use with Contax IIa and Contax IIIa. Price, $9.95.

Model 3f. Same features as 1c, but for use with Leica IIf and Leica IIIf. Price, $9.95.

Special. Same features as 1c, but for use with Stereo Realist. Price, $10.95.
MFR., R. A. Simeil Mfg. Co.

UNIVERSAL

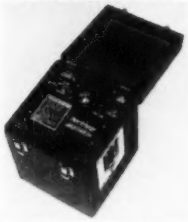
Minute-16. For use with Minute-16 camera; 2 Penlite cells; bayonet lamp socket; unit may be disassembled. Price, $4.95 including tax.

M-29. For use with any Universal still camera except the Minute-16; slides into accessory clip on camera; bayonet lamp socket; 2 Penlite x cells. Price, $7.30 including tax. Cable adapter for use with Roamer cameras, $1.95.
MFR., Universal Camera Corp.

ELECTRONIC FLASH UNITS

Portable and Semi-portable Units of Interest to Amateurs

AMERICAN CINEFOTO
RAY-O-FLASH
DE LUXE TRIPLE UNIT



Semi-portable unit weighing 12 lbs.; a-c only for use with all types of shutters; adapted for focal-plane shutters; Amglo Sunflash V-8 tube; 25,000 flashes per tube at 6500 K color temperature; 1/15000 flash duration; with 7 sec. interval between flashes; 14-inch parabolic reflector with 50-watt focusing lamp; 15 feet of cord; stand; 1, 2, or 3 light operation. Price, with 1 light, $140, tax included; with 2 lights, $185; with 3 lights, $230. Available accessories include booster pack, light stands, Fresnel photo-spot, giraffe boom light, photo cell.
MFR. American Cinefoto Corp.

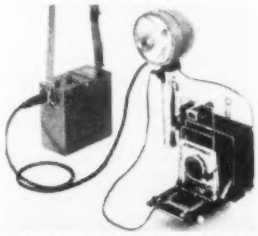
AMERICAN SPEEDLIGHT
ASCOR MIDGET

Portable unit weighing 6 lbs.; 1 interchangeable wet cell battery; a-c and battery operation; battery can be charged; charger included in unit; for use with mechanical, solenoid, and built-in synchronizers and focal plane shutters; FT110 flashtube; 6500 K color temperature; flash duration of 1/5000 sec. with 10 sec. interval between flashes; 5-inch alzac reflector; 4 feet of cord. Price, $140.00, inc. tax. Accessories include battery condition meter, phototube, carrying case.

ASCOR 180-C

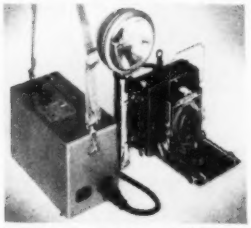
Portable unit weighing 18 lbs.; 1 wet cell battery; a-c and battery operation; battery can be charged; for use with mechanical, solenoid, and built-in synchronizers and focal-plane shutters; G-E FT220 and FT210 flash tubes at 6500 K color temperature; flash duration of 1/5000 sec. with 5 sec. interval between flashes; 7-inch pan or sealed beam reflector; 6 or 10 feet of cord. Price $281.90. Accessories include case, charger, battery meter, stands, reflectors.

ASCOR 90-D



Portable unit weighing 13 lbs.; interchangeable, chargeable wet cell battery; for use with mechanical, solenoid, and built-in synchronizers and focal plane shutters; G-E FT220, FT210 or Syl. flashtube at 6500 K color temperature; flash duration of 1/5000 sec. with 3 sec. interval between flashes; 7-inch pan or sealed beam reflector; light unit attaches on regular battery case. Price $245.10. Accessories are carrying case, charger, light units, etc.

ASCOR 90E

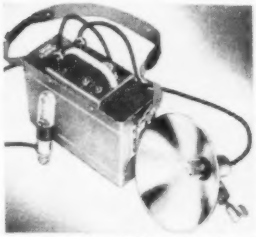


Portable unit weighing 13 lbs.; 1 interchangeable wet cell battery; combination a-c and battery operation battery chargeable; for use with all types of shutters and synchronizers; FT220 flashtube at 6500 K color temperature; flash duration of 1/5000 sec. with 3 sec. interval between flashes; choice of reflectors available. Price, $297.01, inc. tax.

ASCOR 270-C

Portable unit weighing 25 lbs.; interchangeable wet cell battery; a-c or battery operation; chargeable; for use with mechanical, solenoid, and built-in synchronizers and focal-plane shutters; G-E FT220 and FT210 flashtubes; 6500 K color temperature; flash duration of 1/3000 sec. with 6 sec. interval between flashes; choice of 7-inch pan or sealed beam reflector; 6 or 10 feet of cord. Price $299.85. Accessories include cases, charger, extension light, synchronizers, etc.
MFR., American Speedlight Corp.

AMGLO
PORTABLE FLASH DC 2552-A



Portable unit weighing 10½ lbs.; 2 interchangeable, rechargeable, wet cell batteries; for use with all shutters; adapted for focal-plane shutters; uses Amglo 5804X tube; 10,000 flashes per tube; 6500 K color temperature; one or two lights can be used; two units can be connected to give 2, 3, or 4 light operation; flash duration of 1/5000 sec. with 1 tube, 1/10000 sec. with 2 tubes; 7-8 sec. interval between flashes; 7¾-inch aluminum alzac specular reflector; 10 feet of cord; carrying case included; 600 flashes from one battery charging. Price on request. Available accessories include charger, extra batteries, extension lights, shutter cables, battery case adapters, extra condensers. Also available in a four-light unit, and in a kit for home assembly.

TWIN-LIGHT AC 2-85

Semi-portable 2 light unit weighing 16 lbs.; a-c operation only; for all types of shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 54R4X tubes; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/2500 sec. with 1 tube, 1/5000 sec. with 2 tubes; 6 sec. interval between flashes; Amglo Ultra reflector, 7¾-inch diameter; 16 feet of cord; 2 units may be connected for operation of more lights. Price on request. Available accessories include collapsible stands attaching to unit, cable for connecting two units. Available in kit form for home assembly.

PORTA-LITE DC 66-2

Portable unit weighing 7½ lbs.; 2 rechargeable wet cells; battery operation only; for all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 56J2Z tube; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/1500 sec. with 1 tube, 1/3000 sec. with 2 tubes; 12 sec. interval between flashes; Amglo 7¼-inch aluminum reflector; 7 to 12 feet of cord; carrying case included; 1 or 2 light operation. Price on request. Available accessories include extension lights mounted in reflector. Available in kit form for home assembly.

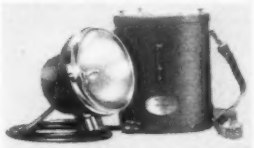
POWER LITE AC 66-2

Semi-portable unit weighing 14 lbs.; a-c operation only; for all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 68N9T, 78N9T, 88N9T, or 56J2Z tubes; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/1500 sec. with 1 tube, 1/3000 sec. with 2 tubes; 7 to 14 sec. interval between flashes; Amglo 7¼-in aluminum reflector; 10 to 14 feet of cord; 1 or 2 light operation; 2 units can be connected for operation of more lights. Price on request. Available accessories include extension lights mounted in Amglo reflectors, and collapsible stands mounted to units. Available also in kit form for home assembly.

QUAD-LIGHT AC 4-85

Semi-portable unit weighing 23 lbs.; a-c operation only; for use with all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 54R4X tube; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/5000 to 1/2500 sec.; 12 sec. interval between flashes; 7¾-inch Amglo Ultra reflector; 16 feet of cord; selector switch controls multiple light operation. Price on request. Available accessories include collapsible stands attaching to unit, extension lights mounted in Amglo reflectors. Also available in kit form for home assembly.
MFR., Amglo Corp.

CELLUX
PHOTO FLASH UNIT SM2



Portable unit weighing 4½ lbs.; interchangeable, chargeable wet cell batteries; for use with shutters having built-in synchronization; can be adapted for focal-plane shutters on all cameras having built-in contacts; G-E FT110 flash tube; 10,000 to 50,000 flashes per tube; flash duration of 1/5000 sec.; interval between flashes 8 sec.; 6-inch plated plastic reflector; 5 feet of cord from power pack to reflector; 75-watt-second light output. Price, including battery charger, $109.50.
MFR., Cellux Electronic Corp.

DAVENPORT PORTABLE UNIT

Portable unit weighing 18 lbs.; operates from rechargeable wet cell battery; 170-watt-second light output; interval between flashes 10 sec.; Kemlite 23ST flashtube; 10,000 flashes per tube; 6500 K color temperature; 1/1000 sec. flash duration; 7-inch reflector. Price, $196, inc. battery charger. Accessories available include extension unit with 10 ft. of cord, and spare batteries.
MFR., D. A. Davenport Mfg. Co.

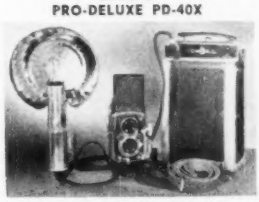
DORMITZER
SYNCTRON M-100

Portable unit weighing 10½ lbs.; wet cell battery and a-c operation; for use with X or built-in zero-delay synchronizers; FT214 flashtube at 6500 K color temperature; 1/5000 sec. flash duration with 10 sec. interval between flashes; 98 watt-seconds light output; built-in safety measures. Price, $180. Accessories include M-101 battery charger, $10.50; M-102 side light, $55.00; M-103 booster pack, $55; M-105 fiber case, $25.00; wet cell, $14.30; slave trigger, $15. Prices do not include tax.

SYNCTRON M-107 CANDID

Portable unit weighing 6½ lbs.; wet cell battery and a-c operation with a-c accessory; for use with built-in zero-delay synchronizers; G-E FT110 flash-tube with more than 10,000 flashes per tube at 6500 K color temperature; 75 watt-second light output; 1/5000 sec. flash duration with 12 to 15 sec. interval between flashes; built in safety measures. Price, $87.50. Accessories include M-101 battery charger, $10.50; M-111 side light, $35.00; M-108 a-c accessory, $10.00; 5 and 20 milli-second delay accessories, $9.50.
MFR., Dormitzer Electric and Manufacturing Co., Inc.

EPCO
PRO-DELUXE PD-40X



Portable unit weighing 10½ lbs.; rechargeable wet cell battery; for shutters with built-in synchronizers or magnetic Solenoids; 120 watt-second output; 2 units can be connected to double light output; uses Kemlite flashtube; 50,000 flashes per tube; 5 sec. interval between flashes; flash duration 1/10,000 sec.; adapter for firing ordinary magnesium flashbulbs; battery charger; 7-inch aplanatic reflector; power pack housed in genuine leather-covered wood case with brass hardware, leather shoulder strap. Price, $160.

PD-400

Same as PD-40X, but includes a-c operation; 20-ft. cord. Price, $185.
MFR., Epco Products, Inc.

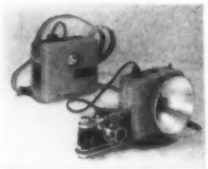
HARWOOD
ECONO-FLASH MODEL III

Portable unit weighing 2 lbs.; a-c and d-c operation; for use with mechanical, solenoid, and built-in synchronizers and focal-plane shutters; Kemlite flashtube with more than 10,000 flashes per tube at 6500 K color temperature; 1/1000 sec. flash duration with 3 sec. interval between flashes; adapter unit to fit existing flashguns;

42 inches of cord. Price, $47.50. Accessories include booster, dry cell battery pack, extension accessory, accessory reflector.
MFR., Harwood Manufacturing Co.

HEILAND

STROBONAR I

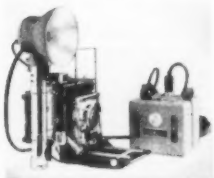


Portable unit weighing 3½ lbs. for a-c plus 4½ lbs. for power pack; 2 wet cell batteries; combination a-c and battery operation, built-in charger; for use with all X-contact shutters and focal-plane shutters on Leica and Exacta cameras; G-E FT110 flashtube with 10,000 flashes per tube at 7000 K color temperature; 1/2000 sec. flash duration with 12 sec. interval between flashes; 5½-inch reflector; four feet of cord plus 12 feet of extension; adaptable as slave light. Price, $82.50 for a-c clamp unit; $51.50 for power pack with built-in charger; tax included. Accessories include HR-7 Fotoeye, HR-5 5 milli-second delay adapter, press camera bracket.

STROBONAR 1A

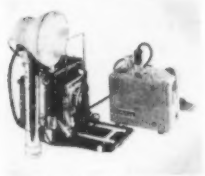
Similar to Strobonar I except that unit has separate reflector head instead of being part of box. Price $97.50 for a-c unit; power pack, $51.50. Accessories include HR-7 Fotoeye; conversion kit permitting use with HR-4 power pack.

STROBONAR III



Similar to Strobonar I, but with separate reflector head; neon indicator lamp; manual discharge switch; for use with a-c or HR-48 power pack as shown. Price on request.

STROBONAR IV



Designed for X-contact operation; for use with a-c or rechargeable batteries included; may be mounted on standard battery case or on HR-9 mounting tube; similar to Strobonar I in features but allows higher light output. Price on request. Available accessories include extensions, mounting tubes, battery charger.

FOTOEYE HR-7

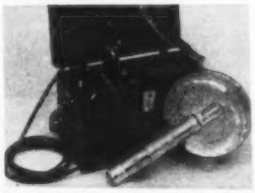
Slave unit for Strobonar I, 1A; a-c operation; photoelectric cell; Fotoclamp (universal ball and socket joint with locking screw and C-clamp); G-E FT110 flashtube with 10,000 flashes at 7000 K color temperature; 1/2000 sec. flash duration with 12 sec. interval between flashes; 5½-inch reflector with plastic shield, extension cord. Price, $124.77, inc. tax.
MFR., Heiland Research Corp.

HERSHEY

SUN-LITE MODEL B-1

Portable unit weighing 6½ lbs.; head weighs 15 oz.; uses 6 dry cell batteries; connection for auxiliary battery for use with mechanical and solenoid synchronizers "X-O," strobe, and shutters with built-in synchronization; Sun-flash flashtube with 10,000 flashes per tube at 6500 K color temperature; 1/10,000 sec. flash duration; about 10 sec. interval between flashes; special 5-inch alchemized reflector; 30-inch cord; power pack in carrying case; adjustable for 2 to 20 milliseconds delay. Price, $67.45 including tax. Extension light, $32.15; power booster, $17.19.
MFR., Hershey Mfg. Co.

KING-SOL PORTABLE

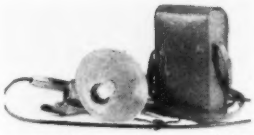


Portable unit weighing 19 lbs.; uses 3 chargeable batteries; charger included in unit; combination a-c and battery operation; for use with mechanical and solenoid synchronizers and shutters with built-in synchronization; 125 watt-second output; extension flash outlet; complete with lamp, holder, reflector, and connecting cord. Price, $99.50 including tax.
DIST., Sterling-Howard Corp.

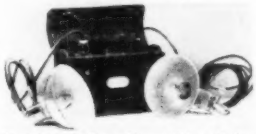
LENNOX

SPEEDLITE 1AC5

Lightweight unit for a-c use only with mechanical synchronizers and built-in synchronized shutters; special G-E FT210 flash tube with 10,000 flashes per tube at 6500 K color temp.; 1/5000 sec. flash duration with 5 sec. interval between flashes; up to 20-inch reflector available; carrying case included; weight, 4½ lbs. Price, $112. Accessories include modeling lights, etc.

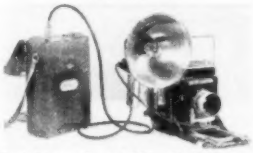


SPEEDLITE 2AC5



Portable studio unit weighing 10 lbs.; this model has the same operating requirements and features as the above model; uses 2 G-E FT210 flash tubes with 10,000 flashes per tube; Price, including carrying case, $255.

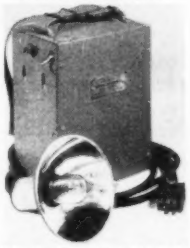
PRESSMAN TWINLITE MODEL BA-5



Portable unit weighing 7 lbs.; uses 2 chargeable wet cells for use with the built-in synchronized shutters; uses G-E FT210 flashtube with 10,000 flashes per tube at 6500 K color temp.; has a 1/5000 sec. flash duration with 10 sec. interval between flashes; 8-inch ellipsoidal reflector with 6-foot cord; Price, including carrying case, $154. Extension lights available as accessory. Model BA-20 is for solenoid synchronizers.
MFR., Lennox Industries, Inc.

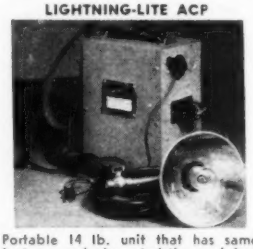
LIGHTNING-LITE

LIGHTNING-LITE BP



Portable 14 lb. unit; 2 interchangeable, chargeable wet cell batteries; battery only operation with mechanical, solenoid, and built-in synchronizers; flashtube with duration of 1/15,000 sec. with 7 seconds interval between flashes; large, specially-designed reflector. Price for complete unit, $189.75 including tax.

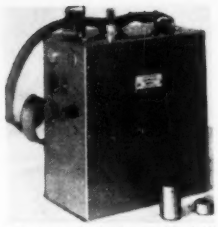
LIGHTNING-LITE ACP



Portable 14 lb. unit that has same features and characteristics and features of BP model; a-c operation only; price, complete, $189.75. Model ACP-2, a 2-lamp model, $252.25.

LIGHTNING-LITE MODEL AC-PC

Portable unit weighing 18 lbs.; for a-c use only with mechanical synchronizers and shutters with built-in synchronization; flashtube has 10,000 flashes with color temperature correct for daylight-type color film without filter; 1/15,000 sec. flash duration with 7 sec. interval between flashes; 6 or 8-inch reflector; unit built in metal carrying case with shoulder strap; photo-cell or shutter triggering. Price, one-lamp model, $165 plus tax; 2-lamp model, $220 plus tax.
MFR. Lightning-Lite Co.



LUMAX

LUMAX 1952

Portable unit weighing 3 lbs.; uses 4 D-type dry cells, battery operation only; for use with mechanical and built-in zero-delay synchronizers; Lumax flashtube with more than 10,000 flashes at 6500 K color temperature; 1/1000 sec. flash duration with 12 sec. interval between flashes; 5½-inch Lumax reflector. Price, $49.95. Accessories include sync cords for any camera; brackets (straight and angle); passive synchronizers.

LUMAX UNIVERSAL

Same as Lumax 1951 except that synch is adjustable from zero to 20 milliseconds delay. Price, $59.95.
MFR., Lumax International, Inc.

PHO-TAK

THRIFT-LITE AC-40

Semi-portable unit weighing 3½ lbs.; a-c only; for use only with X setting on mechanical and built-in synchronizers; adapted for focal-plane shutters; Thrift-Lite tube; 20,000 flashes per tube at 6500 K color temperature; 1/1000 flash duration; 10 sec. between flashes; 7-inch reflector; 12 feet of cord from gun to pack; 6 feet of cord from pack to outlet; no moving parts; tube operates on 450 volts. Price on request. Accessories include L-brackets and cords for popular cameras, synchronizer for Leica.

THRIFT-LITE AC-45

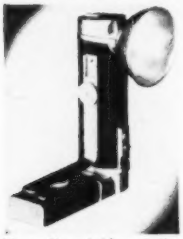
Same features as above; can be used with shutters having either 5 millisecond built-in delay or X setting. Same accessories as above. Price on request.
MFR., Pho-Tak Corp.

PHOTOGRAPHIC PRODUCTS

CHROMO-FLASH COMMANDER

Semi-portable unit weighing 12 lbs.; for a-c use only with solenoid and mechanical synchronizers and shutters with built-in synchronization; uses G-E flashtube with 6800 K color temperature; 1/5000 sec. flash duration with 3 sec. delay between flashes; 10-inch Alzac reflector; 20-foot power cord; power pack and light in one unit; contains modeling light. Price, $182.50. Accessories include remote control light.
MFR. Photographic Products, Inc.

POWELL
REPEATER FLASH F201

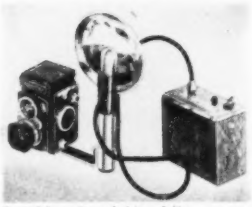


Portable unit weighing 4 lbs. with power pack, 5 lbs. with battery pack; uses 4 dry cells; available as battery operated only, a-c only, or combination a-c and battery operation; for use with mechanical and built-in synchronizers; FT114 flashtube with 10,000 flashes per tube at 6800 K color temperature; 1/5000 sec. flash duration with 6 sec. interval between flashes; 5½-inch parabolic reflector. Price, complete A-C unit, $95; dry cell battery pack, $24.25; all prices plus tax. Accessories include rechargeable battery pack with built-in charger, cords, carrying case, etc.
MFR., Powell Products, Inc.

SEMINAR

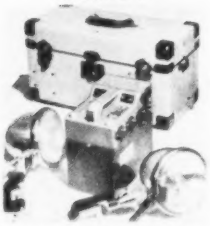
Semi-portable unit; a-c operation; for use with all solenoids and between the lens shutters, and for most focal plane shutters; G-E FT210 flashtube; 7,500 flashes per tube; 6500 K color temperature; flash duration 1/5000 sec.; 3 second interval between flashes; 10-inch reflector with modeling light; 15-ft. connecting cord. Price, $255 to $375, with 1 to 4 lights. Available accessories include 16-inch reflector rim, swivels, stands.
MFR., Seminar Electric Prod., Inc.

SHAWLITE



Portable unit weighing 2 lbs.; a-c operation only; 2 batteries; for use with solenoids and all shutters having built-in flash synchronization; can be adapted for use with focal plane shutters; at speed of 1/25 sec.; Kemlite flashtube; 100,000 flashes per tube; 6500 K color temperature; flash duration 1,2000 sec.; instantaneous firing; 5½-inch parabolic reflector; 2½-ft. cord. Price, $39.95.
MFR., Shaw Electronic Corp.

STROBO RESEARCH
SR STROB III



Semi-portable unit weighing 24 lbs.; for 120 volts a-c use; 60 cycles; SR Strob III power pack; 2 SR LB100 sealed beam flashlamps with SR Universal Quick Change clamps and fittings; 15-foot a-c cord; 15-foot trip cord; 3-foot shutter cord; CEB4R Photo Tube; spare fuses; 1/5000 sec. flash duration when one lamp is used; 1/10,000 sec. duration when both lamps are used; six sec. interval between flashes; uses G-E FT220 and FT403 lamps with over 10,000 flashes at 7000 K color temperature; built-in photo tube permits multiple operation without use of connecting cords as it acts as remote control unit. Price, $295, plus tax.

SR MONOSTROB II

Semi-portable unit for a-c operation; G-E FT110 flashtube; 10,000 flashes per tube; 110 watt-second light output; guide number for color without diffuser, 26; guide number for fast B-W films without diffuser, 200. Price for basic power pack, $192.50. Available accessories include studio reflectors, stands, snoots, diffusers, modeling light.

SR MULTISTROB

Semi-portable unit for multiple banks of power packs; a-c operation; G-E FT503 flashtube; 1,000 watt-second light output; booster packs increase light output to 3,000 watt-seconds; failure of one unit does not break down entire installation; specially adapted for color use or for covering wide areas. Price, for each power pack, $510.

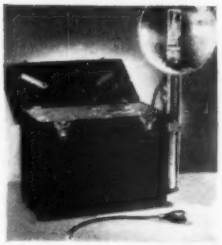
SR MONOSTROB SPOT MS100

Similar to MB100 model except has Fresnel lens in focusing head; G-E FT210 flashtube; 50T8/22DC 50-watt modeling light; CEB4R photo tube; yoke and knobs; 15-foot trip cord; 15-foot a-c cord; 2 spare fuses. Price, $195.80 plus tax.

SR MONOSTROB MB100

Sealed beam unit includes G-E FT-220 flashtube; CEB4R photo tube; yoke and knobs; 15-foot trip cord; 15-foot a-c cord; 2 spare fuses; instruction manual; no modeling light; a-c outlet in housing. Price, $161, plus tax.
MFR., Strobo Research.

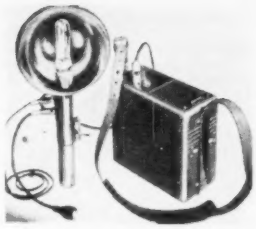
SYLVANIA
SYLVANIA ELECTROFLASH MODEL R1140



Portable unit operating on a-c only with mechanical and built-in synchronizers; R4330 flash tube with over 30,000 flashes per tube; 1/5000 sec. flash duration with 6 sec. interval between flashes; 11-foot permanently connected cord; 7 7/8-inch reflector; gun barrel; 1-foot trip cable. Price, $100 including tax.

SYLVANIA ELECTROFLASH MODEL R1142

Portable unit; battery operated, self-contained model; for use with mechanical and built-in synchronizers; focal plane when set for Time; R4330 flash tube with 10,000 flashes per tube; 1/5000 sec. flash duration with 10 sec. interval between flashes; 12-in. gun barrel; 8-inch reflector; battery rechargeable; price, $190 plus tax. Accessories include Photo-tube Triggering mechanism.
MFR., Sylvania Electric Products Inc.



WILCOX
WILCOX STROBO-LITE P-2

Portable unit weighing 7 lbs.; uses 2 chargeable batteries; for use with solenoid, mechanical and built-in synchronized shutter synchronizations; G-E FT220 flashtube with unlimited flashes per tube at 7000 K color temperature; 1/1500 sec. flash duration with 12 sec. interval between flashes; sealed-beam lamp. Price, $165. Accessories include SB-3 20-foot extension lamp, $49.50; battery charger, $13.

STROBO-LITE M3B

Studio unit weighing 23 lbs.; a-c operation only for use with solenoid and mechanical synchronizers; uses three FT220 flashtubes at 7100 K color temperature; 1/4000 sec. flash duration with 15 sec. interval between flashes; built-in reflector; 20 feet of cord. Price, $300.
MFR., Wilcox Photo Prod., Inc.

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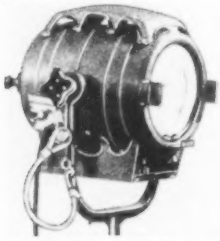
SPOTLIGHTS

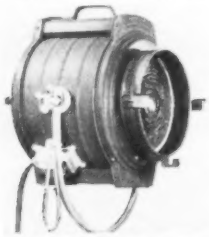
BARDWELL & McALISTER

Boom Light. Uses Baby Keg-Lite as light source; roller stand with boom arm; filter holders; boom in balance at 12½ feet from floor; permits any tight positioning; 25-foot cable. Accessories include barn doors, snoots, diffusers, Macbeth filters, and the Foco-Spot unit. Price, $160.30, less accessories.



Baby Keg-Lite. Focusing by calibrated scale from 4 to 44"; uses 500 to 750-watt T-20 or T-24 with med. bi-post base; roller stand; filter holders; yoke; 25-foot rubber cable; Fresnel lens. Available accessories include, barn doors, snoots, diffusers, low arm bracket, differ box, leg turtle weights, Macbeth filters, table base, Foco-Spot to produce round or rectangle-shaped sharp beam. Price $58.50, less accessories.

Junior Spot. Focusing; uses 2000-watt bi-post lamp; gravity ventilation; no light leaks; roller stand; filter holders; Fresnel lens; U-type yoke; 25-foot heavy-duty cable. Accessories include, barn doors, snoots, diffusers, and Macbeth filters. Price, $58.50, less accessories.



MFR. Bardwell & McAlister, Inc.

BEATTIE HI-LITE

Baby Hi-Lite. Screw focusing; Fresnel lens; uses 100, to 250-watt bayonet-base lamp; natural draft ventilation; available with or without stand; filter holders; includes diffusers, blue filter, 20-foot cable. Price on request.

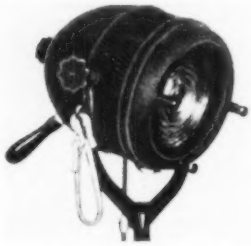
Senior Boom Lite. Screw focusing; Fresnel lens; uses 500, 750, or 1000-watt T-20 pre-focus lamp; stand with boom arm; upper riser is counterbalanced; collapsible legs; filter holders; includes lamp, spun-glass diffuser, fluorescent filter, and 20-foot cable. Price on request. Accessories include barn doors and snoot sets.

Super Boom Lite. Similar to the Senior Boom Lite model except uses 500-watt T-20 medium screw lamp; does not have counter-weight feature; Price on request. Accessories same as above.

Baby Boom Lite. Focusing; uses 100 or 250-watt bayonet-base lamp; Fresnel lens; stand and boom arm; collapsible base legs; filter holders; spun-glass diffuser, fluorescent filter, and 20-foot cable. Price on request.

2 K. W. Cine-Lite. Knob-and-lever focusing; Fresnel lens; uses 2000-watt G-48 bi-post lamp; ventilation through cylindrical baffle; filter holders; includes spun-glass diffuser, 25-foot rubber cable, stage plug. Price on request. Regular stand and small floor stand available as accessories.

Super Hi-Lite. Focusing; Fresnel lens; uses 500-watt T-20 lamp; with or without stand; filter holders; takes 6-inch barn doors and snoots; includes diffuser, blue filter, and 20-foot cable. Price on request. Accessories include barn doors, snoot sets, etc.

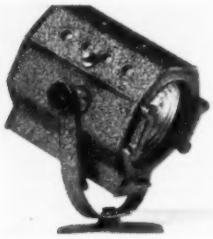


Senior Hi-Lite. Similar to the Super Hi-Lite model, except it uses 500, 750, or 1000-watt T-20 pre-focus lamp; includes diffuser, filter, and 20-foot cable. Price on request. Accessories same as above.

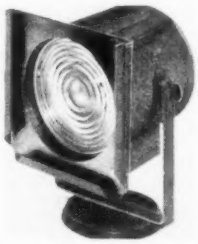
MFR. Otto K. Olesen Co.

BOHLING

Model 1169. Focusing; uses 100-watt G-16½ lamp; 3-inch Fresnel lens; mask slot; filter holders; mounted on 3-inch aluminum base; 6-foot cable; fitting can be furnished to mount on tripod stand; U-type yoke. Price on request.

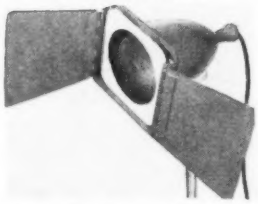


Model 065. Focusing; uses 250 or 500-watt T-20 lamp, or 250 or 400-watt G-30 lamp with pre-focus base; 6-inch Fresnel lens; mask slot; filter holders; U-type yoke; table base; gives soft-edge beam at all focusing position. Price on request.



MFR. F. A. Bohling.

COLORTRAN



Model 750 Spot. Non-focusing; Fresnel lens; 150-watt PAR 38 spotlight lamp recommended; any reflector-type floodlamp or spotlight lamp can be used; tripod socket; filter holders; adjustable revolving barn doors; provision for silk screens. Price, $15 plus tax. Available accessories are snoots.

MFR., Colortran Converter Co.

FR HI-SPOT

Focusing; uses 200-watt lamp at 110 recommended line voltage; Fresnel lens; cooling by fins and slots; tri-

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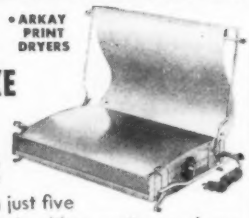

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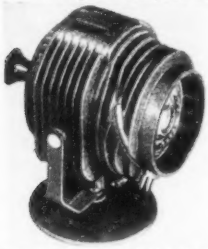
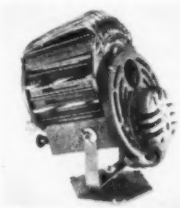
pod socket; table base; yoke; swivels for directional focusing; color temperature, 3200 K. Price, with lamp, $22.50 including tax. Adapters avail-



able to fit 1/2-inch and 3/8-inch light standards.
MFR. The FR Corporation.

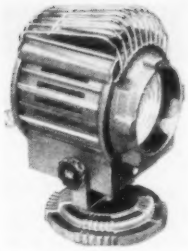
GOLDE

GoldE Hi-Liter. Finger-tip beam-control device; Fresnel lens; uses 100-watt T-8 or 150-watt G-16 1/2 lamp; tripod socket; table base; designed for booms, ceiling, or stand; removable panning handle. Price, less lamp, $10. Spiral louvre and light stand available as accessory.

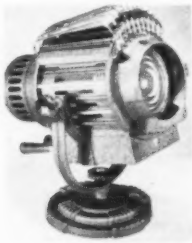


Rotochrome Color-in-Motion Spotlight. Push-pull focusing; condenser lens; uses 250, 400, or 500-watt pre-focus lamp; natural draft ventilation; changes 6 colors per minute; self-starting; table base; adjustable beam size; wire heat guard. Price, less lamp, $29.75. Ceiling or wall mounting bracket available as accessory.

GoldE Bantam Spot. Push-pull focusing; Fresnel lens; uses 500-watt T-20 pre-focus lamp; fluted cooling; special wire heat guard; table base.



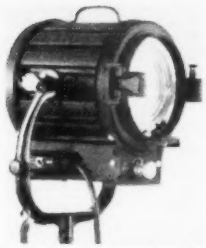
Price, less lamp, $19. Accessories include snoots, telescoping stand, blinder, diffuser, color frames, and ceiling brackets.



Bantam Super Spot. Focusing; Fresnel lens; blower cooled; uses 250, 500, 750, or 1000-watt T-20 pre-focus lamp; wire heat guards; 10-foot cord; has full tilting. Price, less lamp, with table base, $31. Accessories same as above.
MFR. GoldE Mfg. Co.

MOLE-RICHARDSON

Junior Solarspot Model 410. Focusing; Fresnel lens; uses 1000 or 2000-watt mogul bipost lamp; ventilation through interlocking channels; roller stand; collapsible and telescoping; yoke; long rubber cord; for heavy duty. Price on request. Available accessories include diffuser frame, barn doors, stand bracket.



Baby Solarspot. Focusing; Fresnel lens; uses 500 or 750-watt lamp; ventilation through interlocking channel construction; roller stand; collapsible and telescoping; yoke; long rubber cord; rugged for heavy duty. Price on request. Accessories same as above.

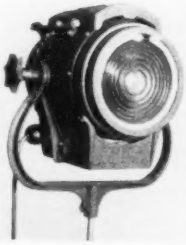
Midget. Focusing; Fresnel lens; uses 200-watt lamp; ventilation by louvers; table base; tripod socket; yoke; filter holders; Price on request. Barn doors available as accessory.

Blue Zephyr Junior Model 1000. Scale focusing; Fresnel lens; uses 1,000-watt or 2,000-watt G-48 lamp; aluminum construction; Alzak mirror; channel cooling; attached rotating barn doors; folding pedestal; diffuser. Price on request.

Blue Zephyr Baby Model 750. Scale focusing; Fresnel lens; uses 750-watt medium bipost lamp; ventilation through interlocking channel construction; yoke; rotating barn door; diffuser frame; long rubber cord; for heavy duty. Available either with

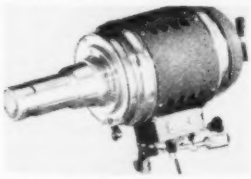
Auxiliary Pedestal, Model 750S or Blue Comet Boom, Model 75. Model 750S is collapsible and telescoping; rubber casters. Blue Comet Boom, Model 75, is collapsible and telescoping; locking rubber-tired casters; air brake in boom; boom arm adjustable from flat to upright; brake drum control at balancing point. Prices for all combinations on request. Accessories available for Model 750 are stand brackets.
MFR., Mole-Richardson Co.

SUN RAY 16



Focusing; 6-inch Fresnel lens; uses 750-watt T20 or T24 lamp with medium bipost base; convection cooling; yoke. Price, less stand, $55.
MFR., Sun Ray Photo Co., Inc.

SUN RAY MODEL 17



Focusing; condenser lens; uses 500-watt T-20 lamp; has ventilation provisions; adjustable socket; diaphragm; special detachable focusing attachment; without stand. Price, $42.50.
MFR., Sun Ray Photo Corp.

SOME NOTES ABOUT FILMS

There is no one single film that will give you the best possible results in every picture-taking situation. Modern emulsions of the general-purpose type have almost unbelievable latitude, but there are times when it is advantageous to know and use a film designed for a specific photographic task.

The film listings on pages 150 and 154 describe the emulsions available today and give their recommended uses. The important characteristics to look for in any film are speed, grain size, exposure latitude, color sensitivity, and contrast. Often, when one quality is especially important in a given case, it is necessary to give up another quality to get it. This is particularly true when speed and grain size are considered—the fastest films give rather large grain when developed as recommended.

Films differ considerably in color sensitivity, but fall into two major classes—orthochromatic and panchromatic. The ortho films are fairly well color balanced, except for a lack of red sensitivity, and are the most popular of all for general-purpose use with simple cameras. Panchromatic films are sensitive to red, are better balanced, and are faster than most orthochromatic films available on the market today.

Within the panchromatic group are films of Type B, which have color sensitivity roughly parallel to the human eye, and Type C, which are similar except for a slight oversensitivity to red. These latter are the fastest films that are available today, and are especially recommended for use in taking pictures indoors under artificial light, which contains much red.

The best advice that can be given to any beginner is to start with one general-purpose film and stick with it, learning to use it before experimenting with anything else.—

MISCELLANEOUS PHOTOGRAPHIC EQUIPMENT

ADHESIVES
Ace Photo Laboratories
Arel, Inc.
Arabol Manufacturing Co
Milton Bradley Co.
Burke & James, Inc.
Th. Chilcote Co.
Commercial Paste Co.
Craftint Manufacturing Co.
Eastman Kodak Co.
Gross Photo Supply Co.
Higgins Ink Co
Industrial Tape Corp.
Inventions, Inc.
National Chemical Co
Paisley Products, Inc.
Porter Mfg. Co.
Rosco Laboratories
Santord Ink Co.
Sprague-Hathaway, Inc.
Union Rubber & Asbestos Co.

AGITATORS, TANK
Brown Coating & Equipment Co.
Oscar Fisher Co., Inc.
Goetz & Ruschman
Franklin M. Morgan
National Chemical Co.
Radiant Specialty Corp.
Testrite Instrument Co., Inc.

ALBUMS
Aabalton's Photofit Co.
American Binder Co., Inc.
American Camera & Photo Supply
Arel, Inc.
The Barco Chemical Prod Co.
Blossom Mfg. Co., Inc.
O. S. Braunstein
John Byrnes Co.
The Camille Co.
Chilcote Co.
Cook's of Camden
Craftmount Co.
Eastman Kodak Co.
Fredart Mfg. Corp.
Gen. Products Co (Reading, Mass.)
General Products Co (Chicago)
Gross Photo Supply Co.
Arthur Hertzberg & Craftsmen
Holson Binders, Inc.
International Sales Co.
Interstate Picture Frame Co.
Kirk Plastic Co.
Emil Koudelka, Inc.
Kreuter Leather Goods Co.
E. E. Miles Co.
B. Oshrin & Brother
Ply-Line Co.
Polly Products, Inc.
Photo Specialty Co.
Joseph Robin Co.
Sprague-Hathaway, Inc.
Stationer Specialty Corp.
York Photo Mount, Inc.

APRONS, DARKROOM
American Camera & Photo Supply
Baco Accessories Co.
Blossom Manufacturing Co.
Canvas Products Corp.
Eastman Kodak Co.
General Photographic Supply Co.
Melrose Manufacturing Co.
Franklin M. Morgan
George Murphy, Inc.
Pictorial Frames
Pierce Co.
The Saunders Co.

AUTOMATIC DIAPHRAGM CONTROL
Graflex, Inc.
H. C. E. Co., Inc.
Hall-Barkan Instruments, Inc.

BACKS, CAMERA
Dividing
Ansco
Burke & James, Inc.
L. F. Deardorff & Sons
Graflex, Inc.
Gundlach Mfg. Corp.
Multiple
Burke & James, Inc.
Eastman Kodak Co
Gundlach Manufacturing Corp.
Reducing
Ansco
Burke & James, Inc.
L. F. Deardorff & Sons
Eastman Kodak Co.
Gundlach Manufacturing Corp.
Photronics, Ltd.
Roll Film Adaptors
Brumberger Co.
Gundlach Mfg. Corp.
Mar-Bar, Inc.
E. Suydam & Co
Spring
Eastman Kodak Co.
Fidelity Mfg. Co.
Wolk Mfg. Co.

BEADS (Glass, for Screens)
Amer. Camera & Photo Supply Co.
Fred Frankel & Sons
Vocalite Screen Corp.

BELLOWS
Adam Archinal Corp.
Bellows Supply Co.
Gundlach Mfg. Corp.
Rodgers Bellows Mfg. Co.
Techni-Service
United Camera Co
I. W. Willin & Co.

CALCULATORS & COMPUTERS
Arel, Inc.
Eastman Kodak Co.
Haber & Fink
Kerman Instr. Co.
George Murphy, Inc.
Precision Camera Equip.
Russ Ramsey
Slyd-Rul Co.

CAMERA REPAIR
See REPAIRS, CAMERAS, ETC.

CASES, CAMERA
American Cam. & Photo Supply
Arel Incorporated
Baco Accessories Co.
Barnett & Jaffe
Bell & Howell Co.
Burke & James, Inc.
Diamond Case Div., Louis Lefkowitz & Bro., Inc.
Durable Fibre Sample Case Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Fiberbilt Case Co.
Fischer Photo Products
General Photographic Supply Co.
Graflex, Inc
Gundlach Mfg. Corp.
Hinson Manufacturing Co.
The Kalart Co.
Keys Stereo Products
Kling Photo Supply Co.
Leatherarts Mfg. Co.
E. Leitz, Inc.
Paillard Products, Inc.
Perfection Sample Case Co.
J. B. Perrin & Co.
Polaroid Corp.
Ruko Company
Sears, Roebuck and Co.
Service Manufacturing Co.
Superb Photo Accessories Co.
Superior Leather Shop
Universal Camera Corp.

CASES—SALON MAILING
Compco Corp.
Durable Fibre Sample Case Co.
Fibre Case & Novelty Co.
Perfection Sample Case Co.

CELLULOSE TAPE
Industrial Tape Corp.
Minnesota Mining & Mfg. Co.

CHANGING BAGS
Burke & James, Inc.
Eagle Photo Supply Co.
Melrose Manufacturing Co.
George Murphy, Inc.
No Dark Products Co.
Service Photo Suppliers, Inc.

CHEMICALS, PHOTO
Ace Photo Laboratories
Ansco
Arel, Inc.
Atkinson Laboratories
Continental Photographic Labs.
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
General Photo Products Co., Inc.
General Photographic Supply Co.
G. Gennert Co. of California
Grant Photo Products, Inc.
A. R. Maas Chemical Co.
Mallinckrodt Chemical Works
Merix Chemical Co.
George Murphy, Inc.
National Chemical Co.
Norman-Willets Co.
Sarnol, Inc.
Sears, Roebuck & Co.

COLD LIGHT ENLARGING HEADS
Aristo Grid Lamp Products, Inc.
DeJur-Amsco Corp.
Federal Mfg. & Eng. Corp.
Simmon Bros.

COLORING MATERIAL
Alden Manufacturing Laboratories
Craftint Manufacturing Co.
Delta Brush Co.
Dyacol Products Laboratory
Eastman Kodak Co.
Grant Photo Products, Inc.
Johnston's Snow White Products
The Kalart Co., Inc.
A. R. Maas Chemical Co.
John G. Marshall, Inc.
Mimosa-American Corp.
George Murphy, Inc.
Nat'l Photo & Lantern Slide Color Co.
Roehrig-Bielenberg Co., Inc.
F. Weber Co.
Webster Brothers Laboratories

COLOR TEMPERATURE METERS
Brown Coating & Equip. Co.
Harrison & Harrison
Heitz & Lightburn Mitropa Corp.
Photo Research Corp.
Stein Photo Distributors

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Artisan Guild
Bourges, Inc.
C. A. Birch-Field Laboratories
Continental Photographic Labs.
Craftint Manufacturing Co.
Curtis Laboratories, Inc.
Dyacol Products Lab.
Eagle Photo Supply Co.
Eastman Kodak Co.
Oscar Fisher Co., Inc.
Goetz & Ruschman
Grant Photo Products, Inc.
A. R. Maas Chemical Co.
McGraw Colorgraph Co.
Franklin M. Morgan
Morse Instrument Co.
George Murphy, Inc.
National Photocolor Corp.
Nobema Products Corp.
Rosco Laboratories
Sarnol, Inc.
Testrite Instrument Co.
United States Stoneware Co.

CONDENSING LENSES
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Semon Bache & Co.
Bausch & Lomb Optical Co.
Bray Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Chess-United Co., Inc.
Ednalite Optical
Miller Optical Co.
Optex Corporation

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Bolsey Corp. of America
Brownie's Specialty Shop
Burke & James, Inc.
C. B. S. Laboratories
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Copydaptor Co.
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Emde Products
Gamma Instrument Co.
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Hall-Barkan Instruments, Inc.
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Heitz & Lightburn
Photo Reproducing Equipment Co
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Shull-Meyer Co.
Spiratone
N. Teitelbaum Sons
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DARKROOMS—PORTABLE
FR Corporation

DARKROOM KITS—Color
Ansco
Arel, Inc.
Brown Coating & Equip. Co.
Continental Photographic Labs.
Curtis Laboratories, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Morse Instrument Co.
George Murphy, Inc.
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DARKROOM SINKS
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Baco Accessories Co.
Brown Coating & Equip. Co.
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Oscar Fisher Co.,Inc.
Franklin M. Morgan
Sears, Roebuck and Co
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DARKROOM KITS—Black & White
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Arel, Inc.
Brown Coating & Equip. Co
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
Howard Products Co.
Mimosa-American Corp.
Sears, Roebuck and Co.
Testrite Inst. Co., Inc.

DARKROOM LABELS
Eureka Specialty Printing Co.

DENSITOMETERS
Eastman Kodak Co.
General Radio Co.
National Photocolor Corp.
Photo Research Corp.
W. M. Welch Mfg. Co.
Weston Electrical Instrument Corp.

DESENSITIZERS
Ansco
Eastman Kodak Co.
George Murphy, Inc.

DODGING DEVICES
Polly Products, Inc.

DRYING AGENTS
O. S. Braunstein
Merix Chemical Co.
George Murphy, Inc.

DYES, PHOTOGRAPHIC
Alden Manufacturing Laboratories
Ansco
Baco Accessories Co.
Curtis Laboratories, Inc.
Dyacol Products, Laboratory
Eastman Kodak Co.
Franklin M. Morgan
Norman-Willets Co.
Webster Brothers Laboratories

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American Cinefoto
American Speedlight Corp.
Cellux Electronic Corp.
D. A. Davenport Mfg. Co.
Dormitzer Electric & Mfg. Co.
Eastman Kodak Co.
Epco Products, Inc.
Heiland Research Corp.
Lennox Industries, Inc.
Lightning Lite Co.
Photographic Products, Inc.
J. G. Saltzman, Inc.
Strobo Research
Sylvania Electric Co.
Tubes
Amglo Corporation
General Electric Co.
Kemlite Labs.
Sylvania Electric Corp.

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American Camera & Photo Supply
Blossom Manufacturing Co.
O. S. Braunstein
General Photographic Supply Co.
George Murphy, Inc.
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Craig Movie Supply Co.
DeJur Amsco Corp.
Elwood Pattern Works, Inc.

ENLARGING AIDS
Adams Retouching Machine Co., Inc.
Burke & James, Inc.
Dyacol Products Lab.
Eastman Kodak Co.
Raymond Georg
Nichols Photo Service
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Shull-Meyer Co.

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The American Products Co.
Ansco
O. S. Braunstein
Eastman Kodak Co.
Andrew E. Lutz Co.
George Murphy, Inc.
The Nega-File Co.

EXPOSURE RECORDS
Atkinson Laboratories
Harrison & Harrison

EXTENSION TUBES
Baco Accessories
Burke & James, Inc.
CBS Laboratories
The Camera Mart
Eastman Kodak Co.
Enteco Industries, Inc.
Fischer Photo Products
Hall-Barkan Instrument Co., Inc.
Heiland Research Corp.
Heitz & Lightburn
E. Leitz, Inc.
Photographic Importing & Distributing Corp.
Shull-Meyer Co.
Spiratone
Techni-Service

FABRIC—BACKING
Seal, Inc.
Western Sales Co.

FERROTYPE
Solution
Alden Manufacturing Co.
Burke & James, Inc.
Eastman Kodak Co.
Edwal Laboratories
Ferolene Sales Co.
General Photographic Supply Co.
Merix Chemical Co.
National Chemical Co.
Sears, Roebuck and Co.
Tins & Plates
American Camera & Photo Supply
Apollo Metal Works
Burke & James, Inc.
Duophoto Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
George Murphy, Inc.
National Sheet Metal Co.
Sears, Roebuck & Co.

FIELD LENSES
Eastman Kodak Co.
The Hartley Co.
E. Suydam & Co.

FILM ACCESSORIES
Adapters:
CM Backs to American Holders
Fidelity Mfg. Co.
No. 120 & 620 to Bantam
Burke & James, Inc.
Eastman Kodak Co.
Cleaning Devices
Eastman Kodak Co.
The Kalart Co., Inc.
Neumade Products Corp.
Photographic Industries, Inc.
Cleaning Preparations
Dyacol Products Lab.
Eastman Kodak Co.
Edwal Laboratories
Merix Chemical Co.
National Chemical Co.
Photographic Industries, Inc.
Rosco Laboratories
Clips & Hangers
A-G Photo Distributors
Ansco
Arel, Inc.
Brunner Booth Photo Co.
Burke & James, Inc.
Carr Corp.
Eastman Kodak Co.
Electra Research Corp.
The FR Corporation
Oscar Fisher Co., Inc.
Goetz & Ruschman
The Hobar Co., Inc.
Testrite Instrument Co.
Theodos Mfg. Co.
Urell, Inc.
Dryers
Aldine Paper Co.
O. S. Braunstein
Oscar Fisher Co., Inc.
Martin Products
Micro Record Corp.
Morse Instrument Company
Drying Solutions
Goetz & Ruschman
A. R. Maas Chemical Co.
Filmpack Adapters
A-G Photo Distributors
Busch Camera Corp.
Eastman Kodak Co.
Graflex, Inc.
E. Suydam & Co.
Film Masks
Robert M. Daly
R. & M. Prod. Develop. Co.
Holders
Alkon Products Corp.
Ansco
Baco Accessories Co.
Burke & James, Inc.
Busch Camera Corp.
Eastman Kodak Co.
Fidelity Manufacturing Co.
Graflex, Inc.
Grover Photo Products
Gundlach Mfg. Corp.
Lisco Products Co.
Lishing Products Co.
E. Suydam & Co.
Loaders (35mm)
Burke & James, Inc.
Ebe Mfg. Co.
Service Photo Suppliers, Inc.
Magazines
Graflex, Inc.
Plate Back to Roll Film
Adam Archinal Corp.
Graflex, Inc.
Gundlach Manufacturing Corp.
E. Suydam & Co.
Techni-Service
Protective Solution
O. S. Braunstein
Cinelac Co.
Curio Photo Co.
Eastman Kodak Co.
Kin-O-Lux, Inc.
Neumade Products Corp.
Pinnacle Productions
Rosco Laboratories
Roll Film Adapter
A-G Photo Distributors
Burke & James, Inc.
Gundlach Mfg. Corp.
Mar-Bar, Inc.
E. Suydam & Co.
Sheet Film Sheaths
Burleigh Brooks Co.
Gundlach Mfg. Corp.
E. Suydam & Co.
Techni-Service
Trimmers & Templates
Eastman Kodak Co.
Goetz & Ruschman
E. Leitz, Inc.
Shull-Meyer Co.

FILTER KITS & CASES
Bolsey Corp. of America
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Fischer Photo Products
Harrison & Harrison
Photographic Importing & Distributing Corp.
Spiratone
Tiffen Manufacturing Corp.

FILTER MOUNTS
Burke & James, Inc.
Burleigh Brooks Co.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
H. C. E. Co., Inc.
Harrison & Harrison

FILTERS, VIEWING
Burleigh Brooks Co.
Chess-United Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Golden 'B' Mfg. Co.
Harrison & Harrison
Moviette, Inc.
Photographic Arts Manufacturing Co.
Photo Research Corp.

FIXING PREPARATIONS
Ace Photo Laboratories
Atkinson Laboratories
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Edwal Laboratories
The FR Corporation
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Mon-Blanc Chemical Laboratories
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Burgess Battery Co.
National Carbon Co., a Div. of Union Carbide & Carbon Corp.
Ray-O-Vac Co.
Yardney Electric Corp.

Battery Tester
Bright Star Battery Co.
CVD Co.
Graham Scientific Instrument Co.
Kinglife Prod. Corp.
Pioneer Patents & Products Co.
Testrite Instrument Co.

Bayonet Adapters & Sockets
Arel, Inc.
Biber Foto Corp.
Harwood Mfg. Co.
Frank W. Morse Co.
Service Photo Suppliers, Inc.
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.

B-C Cartridges
Eastman Kodak Co.
Shureflash Laboratory, Inc.
Sprague Products Co.

Bulb Tester
Bright Star Battery Co.
Burke & James, Inc.
General Photographic Supply Co.
Harwood Mfg. Co.
Kriser Corp.
Pioneer Patents & Products Co.

Flash Bulb Dyes
Dayton Rogers Manufacturing Co.
Dee Bee Laboratory
Jen Products, Inc.
Rosco Laboratories
Scienta Products Co.

Flash Extensions & Accessories
Bolsey Corp. of America
Burke & James, Inc.
Eastman Kodak Co.
Ertler Photo Equipment
Graflex, Inc.
Heiland Research Corp.
Jen Products, Inc.
The Kalart Co.
Kamra Corp.
Kinglife Prod. Corp.
E. Leitz, Inc.
Mendelsohn Speedgun Co., Inc.
Nordic Mfg. Co.
Powell Products Inc.
Praco Photo Products Co., Inc.
Service Photo Suppliers, Inc.
Spiratone Photo Supplies

Flash Shields & Covers
Apel Photo Products
Blossom Manufacturing Co
Brooks Manufacturing Co.
Eastman Kodak Co.
General Photographic Supply Co.
Glo-Brite Products, Inc.
Jen Products, Inc.
Mathkin Products Co.
Spear Products Co.

Pistols & Powder
Kilgore Manufacturing Co.

Remote Flash Units
Heiland Research Corp.
Strobo Research Labs.

Synchronizer Focusing Spotlight
Jen Products, Inc.
Kinglife Prod. Corp.

Synchronizer Tester
Acra Instruments
Aerotronic Associates
Biber Foto Corp.
Cyclops Products
Flashback Sales
General Photographic Supply Co.
Heiland Research Corp.
The Kalart Co., Inc.
Novelty Scientific
Photo Research Corp.
Service Photo Suppliers, Inc.
Techni-Service
Westinghouse Electric Corp.
Wilcox Photo Products, Inc.

FOCUSING AIDS

A-G Photo Distributors
Baco Accessories Co.
Bausch & Lomb Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Burleigh Brooks Co.
C. B. S. Laboratories
Cadwell Corp.
Cal-Cam
Chess-United Co., Inc.
Chromat-O-Scope
Dayton Rogers Manufacturing Co.
Delta Photo Supply Co.
Eastman Kodak Co.
Ednalite Optical Co.
Fedco Products
Fischer Photo Prod.
Foto-Rule Co.
Geiss-America
General Photographic Supply Co.
Gundlach Mfg. Corp.
Hollywood Cine Products
The Kalart Co.
E. Leitz, Inc.
Melrose Manufacturing Co.
Miller Optical Co., Inc.
Mimosa-American Corp.
George Murphy Co.
V. C. Nitsche
Opti-Tek
Photolix, Inc.
Sarnol, Inc.
The Saunders Co.
Shull-Meyer Co.
Starr Corp.
Sutz Products

FRAMES—ADJUSTABLE

Bawden Brothers, Inc.
Braquette, Inc.
A. J. Ganz Co.
General Products of Chgo.
Joseph Robin
Sprague-Hathaway, Inc.
York Photomount, Inc.

GADGET BAGS

American Camera & Photo Supply Co.
Arel, Inc.
Diamond Case Div., Louis Lefkowitz & Bros.
Fischer Photo Products
Hinson Manufacturing Co.
J. B. Perrin & Co.
Ruko Company
Sears, Roebuck and Co.
Service Manufacturing Co.
Service Photo Suppliers, Inc.

GLASS

Ground Glass
Semon Bache & Co.
Eastman Kodak Co.
Norman-Willets Co.

Heat-Absorbing
American Photo Laboratories
Ansco
Semon Bache & Co.
Bausch & Lomb Optical Co.
Burke & James, Inc.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Norman-Willets Co.
Teitelbaum & Sons

Opal
Norman-Willets Co.

Polarizing
Craig Movie Supply Co.
Optex Corp.
Polalite Corp.
Teitelbaum & Sons
Three Dimension Sales Co.

Slides
Semon Bache & Co.
Brumberger Co., Inc.
Burke & James, Inc.
Compco Corp.
Eastman Kodak Co.
Erie Scientific Corp.
GoldE Manufacturing Co.
E. Leitz, Inc.
Miller Optical Co.
Rosco Labs.
Sprague-Hathaway, Inc.

GLOVES—DARKROOM

Tenplus Co.

GRADUATES

Columbian Enameling & Stamping Co., Inc.
Eastman Kodak Co.
Testrite Instrument Co.

GRAY SCALES

Eastman Kodak Co.

GREETING CARD SETS

Chemipure Labs.
Eastman Kodak Co.
Goetz & Ruschman
La France Productions
Miller Outcalt Co.
Mimosa-American Corp.
Photo-Mart

HARDENERS, PREPARED

Ansco
Atkinson Laboratories
A. O. Braunstein
Duophoto Corp.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
A. R. Maas Chemical Co.
Mallinckrodt Chemical Works
Merix Chemical Co.
National Chemical Co.
Sears, Roebuck & Co.

HUMIDITY CONTROL

Abbeon Supply Co.

HYPO

Bath Test
A. O. Braunstein
Eastman Kodak Co.
Edwal Laboratories

Eliminator
A. O. Braunstein
Franklin M. Morgan

Neutralizer
Brown-Forman Industries

Test for Wash Water
E. I. du Pont de Nemours & Co., Inc.

IDENTIFICATION—(Equipment)

Cameras
Graflex, Inc.
Polaroid Corp.

Decalcomanias
Baco Accessories Co.
I-D-Cal Co.

Embossing Seals
Avery Adhesive Label Corp.
Interstate Picture Frame Co.

Stamping Machines
Aabalton's Photofit Co.

Supplies
Graflex, Inc.

INKS—(For Writing on Glass & Negatives)

Alden Manufacturing Co.
Craftint Mfg. Co.
Eastman Kodak Co.
Graflex, Inc.
Higgins Ink Co., Inc.
Johnston's Snow White Products
Stewart Research Labs.
F. Weber Co.

INTENSIFIER

Ansco
Burke & James, Inc.
Curio Photo
Eastman Kodak Co.
George Murphy, Inc.
Jas. H. Smith & Sons Corp.

LAMP BULBS (Other Than Picture Taking)

Burke & James, Inc.
Eastman Kodak Co.
Industrial Devices, Inc.
North American Electric Lamp Co.
Radiant Lamp Corp.
Solar Electric Corp.
Sylvania Electric Co.
Westinghouse Elec & Mfg. Co.

LENSES, PHOTOGRAPHIC

Alco Photo Supply Corp.
Bausch & Lomb Optical Co.
Bell & Howell Co.
Buhl Optical Co.
Burke & James, Inc.
Chess-United Co.
DeJur Amsco Corp.
Eastman Kodak Co.
Ednalite Optical Co.
Elgeet Optical Co.
Gallinger Bros., Inc.
C. P. Goerz American Optical Co.
Gundlach Mfg. Corp.
Herron Optical Co.
Ilex Optical Co.
Kling Photo Supply Corp.
E. Leitz, Inc.
Main Electric Co., Inc.
Meyer-Opticraft Co.
Miller Optical Co.
Optex Corp.
PhotoLix, Inc.
Projection Optics Co., Inc.
Society for Visual Education, Inc.
Starr Corp.
Viewlex, Inc.
Wollensak Optical Co.

LENS ACCESSORIES

Adapters
Alfa Photo Corp.
Enteco Industries, Inc.
Shull-Meyer Co.
Tenplus Co.
Tiffen Mfg. Corp.

Brushes
American Camera & Photo Supply
Arel, Inc.
Baco Accessories Co.
Bausch & Lomb Optical Co.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Miller Outcalt Co.
Nuclear Products Co.
Rosco Laboratories
Starr Corp.

Calibrating, T-Stops
National Cine Equipment, Inc.
Photo Research Corp.

Cleaning Solution
Arel, Inc.
Bell & Howell Co.
A. O. Braunstein
Eastman Kodak Co.
The Kalart Co., Inc.
Mallinckrodt Chemical Works
Mitchell Camera Corp.
George Murphy, Inc.
Rosco Laboratories.
Sturr Industries, Inc.
Wollensak Optical Co.

Coating
Acra Instruments
Buhl Optical Co.
Burke & James, Inc.
Burleigh Brooks Co.
Ray Campbell & Co.
Certified Scientific Co.
Chemoptics, Inc.
Chess-United Co.
Ednalite Optical Co.
Escar Motion Picture Service, Inc.
Gundlach Mfg. Co.
Lockrey Co.
R. S. MacCollister
Mills Photographic Engineering Lab.
Optical Coating Laboratory
Pacific Universal Products Corp.
Starr Corp.
Sturr Optical Co., Inc.
Techni-Service Co.

Diaphragm Controls
Hall-Barkan Instruments, Inc.

Flanges & Boards
Adam Archinal Corp.
Baco Accessories Co.
Bausch & Lomb Optical Co.
Brownie Specialty Shop
Burke & James, Inc.
Burleigh Brooks Co.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Elgeet Optical Co.
Enteco Industries
Gundlach Mfg. Corp.
Heiland Research Co.
Kinglife Prod. Corp.
Shull-Meyer Co.
Techni-Service
The Tenplus Co.

Lens Caps
Baco Accessories Co.
Bausch & Lomb Optical Co.
Bell & Howell Co.
Blossom Mfg. Co., Inc.
Burke & James, Inc.
Eastman Kodak Co.
Elgeet Optical Co.
General Photographic Supply
Heitz & Lightburn
E. Leitz, Inc.
Starr Corp.

Lens Mountings
Hall-Barkan Instruments, Inc.

Shades
American Camera & Photo Supply
Baco Accessories Co.
Bell & Howell
Burke & James, Inc.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
General Photographic Supply
C. P. Goerz American Optical Co.
Harrison & Harrison
Heitz & Lightburn
E. Leitz, Inc.
Miller Outcalt Co.
George Murphy, Inc.
Pioneer Scientific Corp.
Polly Products Co.
Ponder & Best
Techni-Service
Tiffen Mfg. Corp.
Starr Corp.
Wilco Specialties

Shades, Bellow Type
Graflex, Inc.

Shade & Filter Holder Combinations
Bardwell & McAlister, Inc.
Bell & Howell
Bolsey Corp. of America
Burke & James, Inc.
Chess-United Co.
Daylight Sales Corp.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
H. C. E., Inc.
Harrison & Harrison
Heitz & Lightburn
E. Leitz, Inc.
Pioneer Scientific Corp.
Polly Products Co.
Ponder & Best
Techni-Service
Tiffen Mfg. Corp.

Tester
Clarkstan Corp.
Photo-Mart
Photo Research Corp.
Shull-Meyer Co.

Tissue & Cloth
Aldine Paper Co.
American Camera & Photo Supply Co.
Bell & Howell Co.
Eastman Kodak Co.
Rosco Laboratories
A. Rosmarin
Sarnol, Inc.

LIGHTING EQUIPMENT & ACCESSORIES

Background Holder
American Photographic Instrument Co., Inc.

Background Paper
Savage-Universal Corp.

Diffusion Screens
Acme-Lite Manufacturing Co.
Bardwell & McAlister, Inc.
Capitol Stage Lighting Co.
Craig Movie Supply Co.
Eastman Kodak Co.
Garden & Williams
Glo-Brite Products, Inc.
GoldE Manufacturing Co.
Martin Products Co.
Mitchell Camera Corp.
Nichols Photo Service
Optex Corporation
Photo-Mart
Jas. H. Smith & Sons Corp.

Floodlights
Acme-Lite Manufacturing Co.
American Camera & Photo Supply Co.
Bardwell & McAlister, Inc.
Capital Stage Lighting Co.
Compco Corporation
Eastman Kodak Co.
General Products Co.
Grover Photo Products
Miller-Trojan Co.
Mole-Richardson Co.
Morse Instrument Co.
Otto K. Olesen Co.
Photogenic Machine Co.
J. G. Saltzman, Inc.
Shull-Meyer Co.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Sun Ray Photo Corp.
Testrite Instrument Co.

Floodlights for Camera Mounting Movie and Still
Acme-Lite Manufacturing Co.
American Products Co.
Arrow Metal Products
Arrowhead, Inc.
Camera Optics Mfg. Co.
Circle "S" Products Co.
Compco Corporation
Harwood Mfg. Co.
Mayfair Mfg. Co.
Photographic Products, Inc.
Powell Products, Inc.
Sears, Roebuck & Co.
D. Paul Shull Co.
James H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Techni-Service
Testrite Instrument Co.

Floodlight Filters (colored)
Bardwell & McAlister, Inc.
Eastman Kodak Co.
Rosco Labs.

Flood Reflectors
Acme-Lite Manufacturing Co.
Burke & James, Inc.
Carr Corp.
Compco Corporation
Eastman Kodak Co.
Ertler Photo Equipment
Grossman Electric Specialties Co.
Grover Photo Products
Harwood Mfg. Co.
Heitz & Lightburn
Jen Products Co.
Mole-Richardson Co.
Sears, Roebuck & Co.
Jas. H. Smith & Sons Corp.
Spiratone
Testrite Instrument Co.

Flood Reflectors & Clamps
Acme-Lite Mfg. Co.
Arrowhead, Inc.
Compco Corporation
Eastman Kodak Co.
Harwood Mfg. Co.
Heiland Research Corp.
Kenart Devices, Inc.
Shull-Meyer Co.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Strobo Research Corp.
Testrite Instrument Corp.
Whitmore Products

Footswitches
Irving I. Aaron & Associates
Burke & James, Inc.
Camera Specialty Co.
Dimco-Gray Co.
Eastman Kodak Co.
General Control Co.
Industrial Timer Corp
Kriser Corporation
Mimosa American Corp.
George Murphy, Inc.
Pioneer Patents & Products Co.
Spiratone

Hand Flashguns
H & H Mfg. Co.
Service Photo Suppliers, Inc.
Jas. H. Smith & Sons Corp.

Hi-Low Switches
Acme-Lite Mfg. Co.
Industrial Timer
Lightning-Lite Co.
Mardit Manufacturing Co.

Light Boosters
Grover Photo Products
Heiland Research Corp.
Lightning-Lite Co.

Light Stands
Acme-Lite Manufacturing Co.
Amer. Photographic Instrument Co.
Baco Accessories Co.
Burke & James, Inc.
Capital Stage Lighting Co.
Compco Corp.
Eastman Kodak Co.
GoldE Mfg. Co.
Harwood Mfg. Co.
Heitz & Lightburn
Mole-Richardson Co.
Otto K. Olesen Co.
Parker Co.
Petrick Bros., Inc.
Pho-Tel Products
Photogenic Machine Co.
Read Photo Products
Robar Research, Inc.
J. G. Saltzman
Spiratone
Strobo Research
Sun Ray Photo Corp.
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.

Light Tilter
American Photographic Instrument Co., Inc.

Portable Studio Units
Acme-Lite Manufacturing Co.
Grover Photo Products
Mole-Richardson Co.
Morse Instrument Co.
The Parker Co.
Jas. H. Smith & Sons Corp.
Sun Ray Photo Co., Inc.

Reflectors for Midget Flashbulbs
Burke & James, Inc.
Ertler Photo Equipment
Heiland Research Corp.
Kalart Company, Inc.
Kinglife Prod. Corp.
Provident Camera Shop
Jas. H. Smith & Sons Corp.

Voltage Control Units
Carter Motor Co.
General Radio Co.
Industrial Devices
Industrial Timer Corp.
Natco, Inc.
Raytheon Manufacturing Co.

Miscellaneous Electrical Equipment
Aristo Grid Lamp Products
Capital Stage Lighting Co.
Carter Motor Co.
Dee Bee Labs.
Eastman Kodak Co.
Ertler Photo Equipment
Golden 'B' Mfg. Co.
Graflex, Inc.
Grossman Electric Specialty Co.
Grover Photo Products
Industrial Devices
Industrial Electrical Works
Jen Products, Inc.
Kinglife Prod. Corp.
Lightning-Lite Co.
Magicvulc Co.
Mole-Richardson Co.
Otto K. Olesen Co.
Petrick Brothers, Inc.
Photogenic Machine Co.
Powell Products Inc.
Raytheon Manufacturing Co.
Read Photo Manufacturers
J. G. Saltzman
Sears, Roebuck & Co.
Shureflash Laboratory, Inc.
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Sprague Products Co.
W. R. Terrill Co.
Viewlex Inc.

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Compco Corp.
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International Sales Co.
Interstate Picture Frame Co.
Andrew E. Lutz
Miles Kedex Co.
The Pierce Co.
Savage-Universal Corp.
Jas. H. Smith & Sons Corp.
Wilson Jones Co.

MASKING COMPOUNDS
Bourges, Inc.
Dyacol Products Lab.
Andrew Jeri Co., Inc.
Webster Bros. Lab.

MASKS, PRINTING
American Photo Laboratories
Arel, Inc.
Burke & James, Inc.
Di Carlo Crystal Etcher Co.
Eastman Kodak Co.
Felix Distributing Co.
LaFrance Productions
Mimosa American Corp.
The Neder Corp.

Dating
Goetz & Ruschman
La France Productions

Fancy Border
Photo-Mart

Vignetting
Krug Haloette Co.

MATT-CUTTERS
Germain Photo Specialties

MATTE BOX, STILLS
Workrite Products Co.

MIRRORS FOR COLOR & REFLEX CAMERAS
Acra Instruments
Advertising Displays, Inc.
Semon Bache & Co.
Burke & James, Inc.
Evaporated Metal Films Co.
Herron Optical Co.
Miller Optical Co.
Optex, Inc.
Techni-Service

MITTENS, DARKROOM
Neumade Products Corp.
Surety Rubber Co.

MOUNTING SUPPLIES
Boards & Folders
Aabalton's Photofit Co.
American Binder Co., Inc.
Braquette, Inc.
John Byrnes Co.
The Camille Co.
M. W. Carr & Co.
Chilcote Company
Cook's of Camden
The Craftmount Co.
Eastman Kodak Co.
E-P Kardkraft
Erie Scientific Corp.
Gross Photo Supply Co.
Arthur Hertzberg & Craftsmen
International Sales Co.
Interstate Picture Frame Co.
Emil Koudelka, Inc.
Walter A. McCabe Co.
E. E. Miles Co.
Miles Kedex Co.
Mimosa American Corp.
George Murphy, Inc.
National Card, Mat & Board Co.
Nu-Way Co.
B. Oshrin & Brother
Pictorial Frames
Joseph Robin Co.
Sanford Ink Co.
Savage-Universal Corp.
Sprague-Hathaway, Inc.
York Photo Mount, Inc.

Cloth
Seal, Inc.

Corners
Burke & James, Inc.
Engel Art Corners Manufacturing Co.
D. Van Liew-Sonn Co. (Nu Ace)

Frames
Arel, Inc.
Pictorial Frames

Hinges
Arel, Inc.
Mimosa-American Corp.
Premier Manufacturing Co.

Irons
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.

Papers
Holson Binders, Inc.

Presses, Dry-Mounting
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.
Sterling-Howard

Tissue
Eastman Kodak Co.
Seal, Inc.
Western Sales Co.

MOVIE ACCESSORIES
Accessory Film Magazines
Bell & Howell Co.
Burke & James, Inc.
Grover Photo Products
Arthur H. Hart
Par Products Corp.

Barn Doors—Snoots—Focus Spots
Bardwell & McAlister, Inc.
GoldE Manufacturing Co.

Batteries for Camera Drive
Bright Star Battery Co.

Battery and Motor Camera Drives
Custom Built Camera Co.
Arthur H. Hart
Par Products Corp.
Reger Mfg. Corp.

Editing Cases
Cosmolux Co.

Effect Filters
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Tru-Lite Research Laboratories
Wollensak Optical Co.

Fade Devices
Bolsey Corporation of America
The Kalart Co., Inc.
The Moviecraft Co.

Film Cement and Applicators
Ansco
Bell & Howell Co.
Calhoun Co.
Eastman Kodak Co.
Inventions, Inc.
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Mansfield Industries, Inc.
National Chemical Co.
Rosco Laboratories

Focusing Attachments
Grover Photo Products
Par Products Corp.

Lens Testers
Shull-Meyer Co.

Lens Turrets
Grover Photo Products
Arthur H. Hart
Par Products Corp.
Jas. H. Smith & Sons Corp.

Printers
Burke & James, Inc.
Macvan Manufacturing Co.
S.O.S. Cinema Supply Corp.
Superior Bulk Film Co.

Processing Equipment
Burke & James, Inc.
Neumade Products Corp.
S.O.S. Cinema Supply Corp.
Superior Bulk Film Co.

Reels, Cans, Cases, Etc.
Advance Cine Equipment Co.
Alden Manufacturing Co.
Apex Case, Inc.
Arkay Laboratories, Inc.
Barnett & Jaffe
Bell & Howell Co.
Brumberger Co., Inc.
Burroughs Inc.
Calhoun Co.
Colrod Manufacturing Co.
Compco Corp.
DeJur-Amsco Corp.
Durable Fibre Sample Case Co.
Eastman Kodak Co.
Fiberbilt Case Co.
G. M. Laboratories, Inc.
Goldberg Brothers
Kin-O-Lux, Inc.
Lishing Products
Madison Products
Howard B. Marks Co.
Nega-File Co.
Neumade Products Corp.
Perfection Sample Case Co.
Photographic Industries Corp.
Sawyer's, Inc.
Sears, Roebuck & Co.
Sun Ray Photo Co., Inc.

Rewinds
Bell & Howell Co.
Camera Optics Mfg. Co.
Custom Built Camera Access. Co.
Eastman Kodak Co.
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Neumade Products Corp.
Photographic Industries Corp.
Wenzel Distributors

Splicers
Ampro Corp.
Bell & Howell Co.
Bolsey Corp. of America
Eastman Kodak Co.
Fedco Products
Griswold Machine Works
The Kalart Co., Inc.
Kin-O-Lux, Inc.
Lektra Laboratories
Mansfield Industries, Inc.
Marathon Photo Supply Co.
Moviola Manufacturing Co.
Neumade Products Corp.
Paillard Products Corp.
Photographic Industries Corp.
Revere Camera Co.

Title Letters
Clingtite Products Co.
Hollywood Cine Products
The Moviecraft Co.
Joseph Struhl Co.
Varigraph Co., Inc.

Titles, Printing Press
Kelsey Co.

Titles, Ready-Made
Elite Custom Titling Service
Grosso's E-Z Titles
Hollywood Cine Products
Jack-O-Gram Studios
Prospect Products Co.
Title-Craft
Title Slides
U. S. Photographic Equipment Corp.

Titles, Custom-Made
Title-Craft

Viewfinders
Craig Movie Supply Co.
Elgeet Optical Co.
Grover Photo Products

MOVIE LABORATORIES
Ansco
Calvin Co.
Geo. W. Colburn Labs.
Kin-O-Lux

NEGATIVE AND PRINT IDENTIFIERS
Avery Adhesive Label Corp.
Champion Manufacturing Co.
Graflex, Inc.
Grover Photo Products
Roger Wm. Hammill
Lightning-Lite Co.
Ben Parker Co.
Photo-Mart
Stern & Co.
Sutz Products

NEGATIVE BRUSHES
Biber Foto Corp.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Nuclear Products Co.

NEGATIVE FILES
Burke & James, Inc.
Eastman Kodak Co.
Andrew E. Lutz
George Murphy, Inc.
The Nega-file Co.

NEGATIVE PRESERVERS
Bridgeport Brass Co.
Cinelac Co.

NEGATIVE SCRATCH-REMOVER
Alden Manufacturing Co.
Churchill Laboratories
Inventions, Inc.

NEGATIVES, STOCK
Felix Distributing Co.
Photo-Mart

PAINTS & PROTECTIVE COATINGS, DARK-ROOM
Bridgeport Brass Co.
Brown Coating & Equip. Co.
The Holms Co.
The Lockrey Co.
Franklin M. Morgan
National Chemical Co.
Prufcoat Laboratories, Inc.
Slip-On, Inc.
U. S. Stoneware Co.
Wolff & Dolan

PRINTING AIDS
Blotters
American Camera & Supply Co.
Bernard Products
Compco Corp.
Eastman Kodak Co.
General Photographic Supply
Martin Products Co.
Sears, Roebuck & Co.

Drying Aprons—Indicator Type
American Photographic Instrument Co.

Embossers
Alves Photo Service
Eastman Kodak Co.
Goetz & Ruschman
Andrew E. Lutz
Mimosa American Corp.

Flattening Solution
Brown-Forman Industries
Eastman Kodak Co.
Merix Chemical Co.
Mimosa American Corp.
George Murphy, Inc.

Frames
Alden Mfg. Co.
Arel, Inc.
Burke & James, Inc.
Eastman Kodak Co.
Effen Products
Enteco Industries, Inc.
The FR Corp.
Garden & Williams
Mansfield Industries, Inc.
Miller-Trojan
The Neder Corp.
Sears, Roebuck & Co.
Testrite Instrument Co.

Presses
Adams Retouching Machine Co.
Douglas Art Metal Co.

Protective Solution
Alden Manufacturing Co.
Ansco
Bridgeport Brass Co.
Brown Coating & Equipment Co.
Cinelac Co.
Curio Photo
Eastman Kodak Co.
Krylon, Inc.
Merix Chemical Co.

Rollers & Squeegees
Alden Manufacturing Co.
American Products Co.
Burke & James, Inc.
Compco Corp.
Duophoto Corp.
Delta Foreign Sales Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Enteco Industries
The FR Corporation
Grover Photo Products
Mansfield Industries, Inc.
Norman-Willets Co.
Photo Materials Co.
Radiant Specialty Corp.
Raygram Corp.

Straighteners
A. O. Braunstein
Eastman Kodak Co.
Morse Instrument Co.
George Murphy, Inc.

Tongs
Arel, Inc.
Baco Accessories Co.
Burke & James, Inc.
Carr Corp.
Compco Corp.
Curio Photo Co.
Delta Foreign Sales Co.
Eagle Photo Supply Co.
Enteco Industries
The FR Corporation
Fox Products Co.
General Photographic Supply Co.
Mansfield Industries, Inc.
Mimosa American Corp.
Sears, Roebuck & Co.
Testrite Instrument Co.

PROJECTOR STANDS
American Products Co.
Bell & Howell Co.

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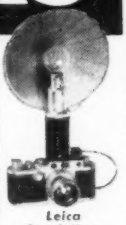
The West Coast's Most Complete Photographic Equipment store, specializing in fast mail order deliveries, rapid service by factory-trained technicians, and one of the largest selections of fine lenses in the country

MOVIE DEPT.

Bolex H-16 complete with brand new 1" f/1.9 Berthiot coated lens, 17mm Wide Angle coated Wollensak lens, and 3" telephoto coated lens, new ..... **299.**

Bolex H-16 Trifocal, vf. crit. foc. f1.9 Lytar 229.50
Bell & Howell Autoload 16mm Mag. camera #153B, f1.9 coated lens, new 129.50
Bell & Howell Auto Master 16mm Mag. camera #153BA, f1.9 coated lens, new 169.50

	New	L. New
Cine Special II f1.9 Ektar lens	960.00	750.00
Auricon Sound Camera	695.00	595.00
Auricon Pro, 200 ft. cap	1597.50	

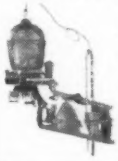


Leica Specialists
On the staff at Brooks is a factory-trained E. Leitz technician

LEICA

Brand new Leica IIIF with built-in flash synchronization. Body only with your present IIIC (subject to inspection). Keep the lens on your present Leica **99.50**

	New	L. New
Leica IIIF without lens	221.00	
Leica IIIf f2 Summitar	384.20	
Leica IIIC f2 Summitar	350.00	199.00
Leica IIIC f3.5 Elmar	259.00	159.00
Leica IC, body only	68.00	
35mm Summaron f3.5 ctd.	122.40	89.00
50mm Nikkor f1.4	198.00	
50mm Summitar f2	187.00	119.00
50mm Summarit f1.5	272.00	
85mm Summarex f1.5	459.00	369.50
85mm Nikkor f/2, ctd	175.50	
90mm Elmar f4 chrome	132.60	89.50
135mm Hektor f4.5 ctd.	165.00	114.50
200mm Telyt f4.5 ref. hous.	336.00	249.00
300mm Kilfitt w/ reflex housing	284.50	
Focomat Enlarger Model 1c	147.00	
Focomat Enlarger Model IIA Auto focus w/50mm & 95mm lens, 35mm & 2¼x3¼	390.00	
Leica-Meter	24.00	
Model IIIf flash	24.00	



BRAND NEW PRESS OUTFIT

Busch 4 x 5 Pressman, ctd. 5" Ektar lens in flash comp. With Kalart Rangefinder, revolving back, double extension bellows, precision workmanship **129.50**

Optical Viewfinder 8.95
Busch Flash gun 14.95
Brand New 2¼ x 3¼ Busch. 4" ctd. Xenar in Comp. Synch. w/cupd. R.F. 129.00
2¼ x 3¼ Pacemaker Crown Graphic with coupled rangefinder f4.5 Xenar in flash compur shutter — new 179.50
2¼x3¼ Pacemaker Speed Graphic with coupled rangefinder f4.5 Xenar in flash compur shutter, flash gun — new 219.50
4x5 Pacemaker Crown Graphic with Kalart rangefinder f4.7 coated Ektar in flash compur shutter — new 179.50
4x5 Pacemaker Speed Graphic with Kalart rangefinder f4.7 coated Ektar in flash compur shutter, flash gun — new 219.50

ROLLEIFLEX — ROLLEICORD

The Rolleiflex 1952 Automatic with MX Compur Rapid Synchro.
1952 Synchro Rolleiflex f3.5 Xenar w/case, new 265.00
1952 Synchro Rolleiflex f3.5 Tessar w/case, new 285.00
1952 Rolleicord III w/f3.5 Xenar w/case, new 149.00

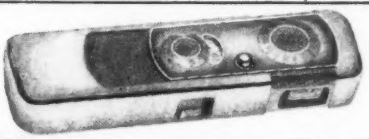
ROLLEIFLEX ACCESSORIES

Rolleiflex filters bayonet mt. w/case, ea. 5.12
Rolleinar lenses, set of 2, in case 18.69
Rolleipar lens, corrects parallax in case 9.06
Cutfilm Back Set inc. 3 holders 38.28
Rolleikin 35mm Attachment 35.78
Trade up your present Rollei for a 1952 Model

ZEISS CAMERAS

From the American Zone in Germany. Complete with built in synchronization, self-timing device and single window type rangefinder and viewfinder.

	New	L. New
Contax IIA with f2 Sonnar	444.00	289.00
Contax IIA with f1.5 Sonnar	488.00	329.00
Contax IIIA with built in light meter, latest design, f2 Sonnar	490.00	
Contax IIIA with f1.5 Sonnar	534.00	
35mm Biogon for IIA, f2.8	245.00	179.00
35mm Biogon for II & III f2.8		102.00
85mm f2 Sonnar	292.00	139.50



1952 MINOX III & ACCESSORIES

World's smallest high precision camera features an f 3.5 coated lens, automatic filter clearance, leather case and safety chain. Camera measures only 3" in length, weight 2 ounces, shipped ppd. 117.50
Minox photo-electric exposure meter 21.50
Minox Developing Tank 10.03
Minox Tripod Head 4.96
Minox dual Enlarger & Copier, comp. with lens 175.00
50 exp. black and white magazine 1.01
24 exp. daylight color magazine 1.25
Minox slide projector for Minox & 16mm film 29.50

LINHOF SUPER TECHNIKA

2¼ x 3¼ LINHOF SUPER TECHNIKA with Multi-focus viewfinder and rangefinder. Equipped with 65mm Angulon f/6.8, 105mm Xenar f/3.5, and 180mm Tele-Xenar f/5.5. The complete Press-View camera! 575.00

Lenses for Linhof Cameras

65mm f6.8 Schneider Angulon in Comp. Synch., W.A. for 2¼x3¼ 54.25
90mm f6.8 Schneider Angulon, Comp. Synch., W.A. for 4x5 ..... 56.96
120mm f6.8 Schneider Angulon, Comp. Synch., W.A. for 5x7 ..... 85.00
6" f6.8 Goerz Dagor in Rapax synch. shutter 145.00
6" f4.5 Schneider Xenar, flash comp. 76.00
7" f6.8 Goerz Dagor in Rapax synch. shutter 167.50
8¼" f6.8 Goerz Dagor in Rapax synch. shutter 177.50
8½" f4.5 Schneider Xenar, flash comp. 127.35
240mm f5.5 Schneider Tele-Xenar, fl. comp. 100.00
270mm f5.5 Schneider Tele-Xenar, fl. comp. 134.00
360mm f5.5 Schneider Tele-Xenar, fl. comp. 179.00

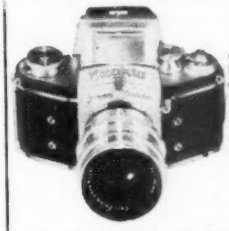
Schneider Convertibles

Symmar 135mm, 210mm, 260mm f6.8 in Compur synch. 51.75
Symmar 180mm, 285mm, 355mm f6.8 in Compur synch. 91.80
Symmar 210mm, 325mm, 405mm f6.8 in Compur synch. 101.40

Linhof Accessories

Sportsfinder 13.75
DeLuxe Combination case, all leather for 4x5 & accessories 45.00
Reporter Tripod 33.00
Professional DeLuxe Geared Tripod 169.95

4x5 Super Technika with 127mm f4.7 Press Xenar synchro 359.75
4x5 Super Technika w/150mm f/4.5 Press Xenar Synchro 375.75
4x5 Super Technika with 127mm and 90mm f6.8 Angulon 442.00
4x5 Super Technika with above lenses and 240mm f5.5 Tele-Xenar 560.00
5x7 Super Technika with Multi-focus Rangefinder, Sports Finder, blank lensboard, blank scale slide, no lens 499.75
5x7 Super Technika with 210mm f4.5 Xenar 577.10



EXAKTA VX

With Preset Diaphragm

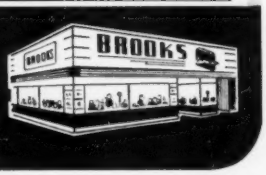
One of the world's great 35mm single-lens reflex cameras . . . versatile, accurate, simple to use . . . with ground glass focusing that gives you the exact picture you see. The ideal camera for everyone — from amateur to professional, artist to scientist — who takes pictures.

Kine Exakta VX with f2.8 Zeiss Tessar "T" coated lens, with wastlevel Reflex Viewfinder 269.50
Kine Exakta VX with f2 Zeiss Biotar "T" coated lens, with waistlevel Reflex Viewfinder 343.00
Kine Exakta V, f3.5 ctd. Zeiss Tessar 199.00
Exakta V w/f2 Zeiss Biotar 239.00
Penta Prism Eye Level prismatic Viewfinder for Exakta Model V-X and V 50.00
Genuine leather Eveready Case for Exakta Model V-X 12.00
35mm Retrofocus f2.5 w. a. 99.50
38mm f5.7 Berthiot 39.95
40mm f4.5 Zeiss Tessar w. a. 99.00
40mm f4.5 Hugo Meyer Goerlitz w. a. 74.50
75mm f1.5 Biotar 216.50
85mm f2.8 Steinheil Culminar 68.00
90mm f1.8 Angeneux 149.50
100mm f2.8 Hugo Meyer Goerlitz Trioplan 81.60
135mm f4.5 Steinheil Culminar 60.00
135mm f4.5 Zeiss Triotar 75.00
150mm f5.5 Meyer Goerlitz 55.95
180mm f5.5 Hugo Meyer Goerlitz Tele-Megor 82.95
250mm f5.5 Hugo Meyer Goerlitz Tele-Megor 132.15
400mm f5.5 Hugo Meyer Goerlitz Tele-Megor 199.50
Bellows Attachment 44.50
Set of 3 Extension Tubes w/2 Adapters, Original Ihagee 24.00
Set of 3 Extension Tubes, Domestic 14.50

NEW REDUCED PRICE! Brand New Exa
35mm single-lens reflex camera with coated f/2.9 lens 89.00
Trade Your Present Camera for a VX

A few left— New Exakta II w/f3.5 Tessar "T" ctd. 148.50
New Exakta II w/f2 Biotar "T" ctd. 197.50
Case 9.50

BROOKS *Cameras*



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Colrod Mfg. Co.
Fox Products Co.
Kinnard Co.
Howard B. Marks Co.
Merrill Lee Co.
Neumade Products Corp.
Petrick Brothers, Inc.
Jas. H. Smith & Sons
Testrite Instrument Co., Inc.
Wil-Sel Products Co.

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Barnett & Jaffe
Bausch & Lomb Optical Co.
Bell & Howell Co.
Carter Motor Co.
Chess-United Co.
Davidson Manufacturing Co.
DeJur Amsco Corp.
D'amond Case Div.
Eastman Kodak Co.
Ednalite Optical Co.
Elgeet Optical Co.
Fibre Case & Novelty Co.
Leatherarts Mfg. Co.
Lightning-Lite Co.
Otto K. Oleson Co.
Otto Engineering Co.
Penberthy Inst. Co.
Pioneer Patents & Prod. Co.
Projection Optics Co., Inc.
The Saunders Co.
Spiratone
Tec Engineering Co.
Technics Company
Viewlex, Inc.
Wollensak Optical Co.
Zephyr Products, Inc.

RANGEFINDER AIDS—CAMERA TYPE

Alfa Photo Corp.
Burke & James, Inc.
General Photographic Supply Co.
Kalart Co., Inc.
Meyer-Opticraft, Inc.
Photo-Mart
Sutz Products

RANGEFINDER AIDS—POCKET TYPE

Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Meyer-Opticraft, Inc.

REDUCERS

Ansco
Atkinson Laboratories
Brumberger Co., Inc.
Craig Movie Supply Co.
Dyocol Products Lab.
Eastman Kodak Co.
Lockrey Co.
George Murphy, Inc.

REPAIRS—Camera, Shutter, Exposure Meter, Etc.

Ace Scientific Labs (S. Gate, Calif.)
Adam Archinal Corp. (N. Y. C.)
Ralph Altman (Chicago)
Amico Camera Co. (Utica, N. Y.)
Appleton-Funk (Denver)
August Camera Repair (Hollywood)
B & V Camera Repair Service (Chicago)
Baco Accessories Co. (Hollywood)
Bauman Camera Repair Lab. (Long Beach, Calif.)
Bobs Camera Service (Ogden, Utah)
Lawrence Butler (Chicago)
Camera Clinic (Sioux Falls, S. D.)
Camera Clinic (Kansas City, Mo.)
Camera Repair Service of San Diego
Camera Research & Repair (Los Angeles)
Camera Service Center (Lewiston, Me.)
Camera Services, Inc. (N. Y. C.)
Castle Photo Service (Wichita, Kans.)
Central Camera Repair Co. (Chicago)
Central States Camera Repair (Wichita, Kan.)
Chicago Camera Specialists (Chicago)
H. C. Clark (Cashmere, Wash.)
Colorado Bellows Service (Denver)
Compro-Flash (Rochester, N. Y.)
Detroit Camera Works (Detroit, Mich.)
Eastern Film Libraries (Waterbury, Conn.)
Ferguson's Camera Repair Lab. (Pasadena, Cal.)
Fotofix Camera Repairs (N. Y. C.)
Foto-Tek (Portland, Oregon)
General Camera Co. (Chicago)
General Camera Repair Shop (San Francisco)
Gould Lens Service (Binghamton, N. Y.)
Gundlach Mfg. Corp. (N. Y.)
Arthur H. Hart (San Francisco)
Oscar Heinemann (N. Y. C.)
High Class Camera Repair Co. (Minneapolis)
Holland Camera Repair Lab. (Denver)
International Camera Corp. (Chicago)
Jackson Laboratories (Webster Groves, Mo.)
Jacksons' Camera Store (Miami, Fla.)
Henzoldt Labs. (Irvington, N. J.)
Kamra Corp. (New York 3, N. Y.)
Harold C. Levie (Baltimore, Md.)
R. S. MacCollister (San Francisco)
Mack Camera Shop (Union, N. J.)
Mack's Cameracraft (Portland, Ore.)
E. B. Marjoran (Rochester, N. Y.)
James Marshall (Phil., Pa.)
William Meyerowitz (Bronx, N. Y.)
Midtown Optical & Camera Serv. Co. (N. Y. C.)
Mills Photo. Eng. Lab. (Hollywood)
Molers Camera Clinic (Wichita, Kans.)
Morgan Camera Shop (Hollywood)
C. W. Moyse (N. Y. C.)
Nickerson (Lynn, Mass.)
Northwest Camera Repair Co. (Minneapolis)
Optical Coating Lab., Inc. (Wash., D. C.)
Pierce Camera Rebuilding Lab. (Quebec, Canada)
Pipkin-Castle Photo Service (Oklahoma City)
Presto Camera Repair (Dallas)
Arthur H. Reynolds (Swampscott, Mass.)
Oskar Richter (Rochester, N. Y.)
R J Camera Laboratories (Los Angeles)
Roberts Photo Workshop (Nitcong, N. J.)
Sears, Roebuck Camera Repair Service, Box 8140, Chicago 80, Ill.
Sharman Camera Works (San Francisco)
Jay S. Simms (Monterey, Calif.)
Techni-Service Co. (N. Y. C.)
Trautwein & Magnus Camera Repair Shop (N. Y. C.)
Turner Associates (Rochester, N. Y.)
Unfried Photo Supply (Buffalo, N. Y.)
United Camera Co. (Chicago)
S. Walters (Los Angeles)
W. I. Willin & Co. (Alhambra, Calif.)
Willman Camera Service (Phoenix)
Willoughby's (N. Y. C.)

RETOUCHING ACCESSORIES

Abrasion-Tone Kits
Alden Manufacturing Co.

Brushes & Pencils
Delta Brush Co.
Eastman Kodak Co.
Germain Photo Specialties Co.
V & E Mfg. Co.

Erasers
V & E Manufacturing Co.

Kits & Sets
Alco Photo Supply
Alden Manufacturing Co.
A. O. Braunstein
Dayton Rogers Manufacturing Co.
Germain Photo Specialties
Spiratone
V & E Mfg. Co.

Knives
Alco Photo Supply
Burke & James, Inc.
Di Carlo Crystal Etcher Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
General Photographic Supply Co.
Raymond Georg
Germain Photo Specialties Co.
V & E Mfg. Co.
F. Weber Co.
H. K. Williams Co.

Opaques & Solutions
Alden Mfg. Co.
Ansco
Artist's Supply Co.
A. O. Braunstein
Burke & James, Inc.
Churchill Laboratories
Craftint Manufacturing Co.
Curio Photo
Dyacol Products Lab.
Eastman Kodak Co.
Raymond Georg
Germain Photo Specialties
Gray-al Dye Co.
Johnston's Snow-White Products Co.
Maurer Photo Co.
Norman-Willets Co.
Retouch Methods Co.
V & E Mfg. Co.
F. Weber Co.
Webster Brothers Lab.

Print-Etching Solution
Churchill Laboratories
Dyacol Products Lab.

Retouching Stands & Desks
Alden Manufacturing Co.
Burke & James, Inc.
Churchill Laboratories
Clarkstan Corp.
Eagle Photo Supply Co.
Germain Photo Specialties
Grey-al Dye Co.
Henry Hjort
Minute Man Photo Products
George Murphy, Inc.
Nega-File Co.

Sharpening Materials
Raymond Georg

Spotting Colors
American Camera & Photo Supply
Craftint Manufacturing Co.
Dyacol Products Lab.
Eastman Kodak Co.
Grey-al Dye Co.
Retouch Methods Co.
Jas. H. Smith & Sons Corp.
Johnston's Snow White Products Co.
Webster Brothers Lab.
H. K. Williams Co.

SAFELIGHTS & FILTERS

American Camera & Supply Co.
Ansco
Artisan Guild
B W Molded Plastics
Brumberger Co.
Burke & James, Inc.
Compco Corporation
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Golden "B" Manufacturing Co.
Minute Man Photo Products
Franklin M. Morgan
Sylvania Electric Co.
Windman Brothers

SCALES, DARKROOM

Eastman Kodak Co.
Ohaus Scale Corp.
Pelouze Manufacturing Co.

SCREEN POINTERS

Algonkin Co.
Bardwell & McAlister
Burke & James, Inc.
Penberthy Instrument Co.
Precision Electronic Products Co.

SELF-TIMERS

A. G. Photo Distributors
Alco Photo Supply
Baco Accessories Co.
Saul Bower, Inc.
Burke & James, Inc.
Burleigh Brooks Co.
Camera Specialty Co.
R. W. Cramer Co., Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Jay-Bee Electronic Labs.
Mimosa American Corp.
M. H. Rhodes, Inc.
Service Photo Supplies, Inc.
Spiratone

SENSITIZING KITS

Brush-A-Photo Co.
Eagle Photo Supply Co.
National Chemical Co.
Sun Foto Mfg. Co.

SHOULDER-BRACE (To Steady Camera)

Otto Engineering Co.

SHUTTERS

Arrowhead, Inc.
Bausch & Lomb Optical Co.
Eastman Kodak Co.
Elgeet Optical Co.
Graflex, Inc.
Gundlach Mfg. Co.
Kamra Corp.
Ilex Optical Co.
Michigan Photo Shutter Co.
Hans Unfried Photo Supplies
Wollensak Optical Co.

SHUTTER RELEASE

Body-Type
Burke & James, Inc.
Eastman Kodak
Effen Products
Ilex Optical Co.
Kalart Co., Inc.
Laker Hairspring Service
George Murphy, Inc.

Cables
Alco Photo Supply
Burke & James, Inc.
Burleigh Brooks Co.
Eastman Kodak Co.
Effen Products
Heitz & Lightburn
Ilex Optical Co.
Kamra Corp.
E. Leitz, Inc.
Michigan Photo Shutter Co.
Mimosa American Corp.
George Murphy, Inc.
Unfried Photo Suppliers

Electrical
A. G. Photo Distributors

Cable Extensions
De Groff Laboratories

Pumps
Ilex Optical Co.

SHUTTER TESTERS

Hollywood Precision Labs.

SILVER RECLAIMING

Edmund Scientific Corp.
Gopher Laboratory
National Chemical Co.
States Smelting & Refining Co.
Urell, Inc.

SLIDE ACCESSORIES

Binders
Aabalton's Photofit Co.
Arel, Inc.
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Compco Corporation
Davidson Manufacturing Co.
Deep-Vue Corp.
Eastman Kodak Co.
Erie Scientific Corp.
GoldE Manufacturing Co.
Kimac Company
E. Leitz, Inc.
Mack's Industries, Inc.
Mino-Mount Co.
Porter Mfg. Co.
W. K. Smithson Co.
Society for Visual Education, Inc.
U. D. A. Co.
Universal Camera Corp.

Changers
Airequipt Mfg. Co.
GoldE Mfg. Co.
Three Dimension Sales Co.

Files
Aabalton's Photofit Co.
Arel, Inc.
Barnett & Jaffe
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Craftsman's Guild
Davidson Manufacturing Co.
Deep-Vue Corp.
Eastman Kodak Co.
G-M Laboratories, Inc.
GoldE Mfg. Co.
Kimac Company
E. Leitz, Inc.
George Murphy, Inc.
The Nega-file Co.
Neumade Products
Pioneer Patents & Products
Plastro, Inc.
Society for Visual Education, Inc.
Westerlind Products
Zephyr Products, Inc.

File & Viewing Combination
Aabalton's Photofit Co.
Airequipt Mfg. Co., Inc.
Brumberger Co.
Craftsmen's Guild
Deep-Vue Corp.
Sears, Roebuck & Co.

Frames, Mounts & Accessories
Brumberger Co.
Burke & James, Inc.
Chromat-o-Scope Co.
Craftsmen's Guild
Deep-Vue Corp.
Eastman Kodak Co.
Emde Products
Erie Scientific Corp.
GEMounts
GoldE Manufacturing Co.
Holson Binders, Inc.
The Houston Corp.
Keys Stereo Products
Kimac Co.
E. Leitz, Inc.
Andrew E. Lutz Co.
Porter Mfg. Co.
Society for Visual Ed.
Tri-Vision Sales Co.
Tru-Vue, Inc.
Universal Camera Corp.

Mailing Cases
Barnett & Jaffe

Slide Sealers
Radiant Specialty Corp.

Title Letters
California Pattern Letter Supply
Clingtite Products Co.
Hollywood Cine Products
H. W. Knight & Son
Mitten's Movie Titlers
The Moviecraft Co.
Prospect Products Co.
Sears, Roebuck & Co.
Joseph Struhl Co.
Super-Cam Products
Varigraph Co., Inc.

Titles, Printing Press
Kelsey Co.

Titles, Ready-Made
Elite Custom Titling Service
Grosso's E-Z Titles
Hollywood Cine Products
Jack-O-Gram Studios
Notogravure, Inc.
Prospect Products Co.
Sears, Roebuck & Co.
Super-Cam Products
Title-Craft
Title Slides
U. S. Photographic Equipment Corp.

Titles, Custom-made
Title-Craft

Viewers
Aabalton's Photofit Co.
Arcadia Manufacturing Co.
Bausch & Lomb Optical Co.
Bernard Products
Brownie Mfg. Co.
Brumberger Co., Inc.
Burke & James, Inc.
Clay-Adams Co.
Craftsmen's Guild
Deep-Vue Corp.
Eastman Kodak Co.
The FR Corporation
J. & M. Products Co.
Kimac Company
La Belle Industries, Inc.
E. Leitz, Inc.
Mast Development Co., Inc.
Mico Photo Products Co.
Pictar
Pioneer Patents & Products Co.
Sawyer's
Universal Camera Corp.

SOLUTION HEATING UNITS
Brown Coating & Equip. Co.
National Chemical Co.
Schaeffer Co., Inc.
Still-Man Co.

SOUND RECORDERS
Ampro Corp.
Brush Development Co.
Caltron Co.
Capitol Projector Co.
Cinetech Co., Inc.
George Culbertson
Miles Reproducer Co., Inc.
Movie-Mite Corp.
Movievox Co.
Pentron Corp.
Revere Camera Co.
C. R. Skinner Manufacturing Co.
Victor Animatograph Corp.
Webster-Chicago Corp.
Webster Electric Co.

SOUND RECORDERS SYNCHRONIZED
Miles Reproducers Co.
Movievox Co.
Wilson & Garlock

SOUND TURNTABLES
Caltron Co.
George Culbertson
Webster-Chicago Corp.

SPONGES
The Barco Chemical Products Co.
Burke & James, Inc.
Carr Corp.
Industrial Tape Corp.
George Murphy, Inc.

STEREO DEVICES
A. G. Photo Distributors
Advertising Displays, Inc.
Brumberger Co., Inc.
Burke & James, Inc.
Deep-Vue Corp.
James V. Keys
Kimac Co.
Nord Co.
Radex Stereo Co.
Sawyer's, Inc.
Spindler & Sauppe
Tru-Vue Co.
Universal Camera Corp.
David White Co.

TEMPERATURE CONTROLS
Oscar Fisher Co., Inc.
Lawler Automatic Controls, Inc.
Minneapolis-Honeywell Regulator Co.
Franklin M. Morgan

TEXTURE SCREENS
E. I. du Pont de Nemours & Co., Inc.

THERMOMETERS, DEV.
Arel, Inc.
Brown Coating & Equip. Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Oscar Fisher Co., Inc.
The FR Corporation
General Photographic Supply
George Murphy, Inc.
Ohio Thermometer Co.
Sears, Roebuck & Co.
Testrite Instrument Co.
Watrous & Co.
Weston Electrical Instrument Corp.

THERMOSTATIC CONTROLS
Lawler Automatic Controls, Inc.
Oscar Fisher Co., Inc.
Powers Regulator Co.
Stouffer Graphic Arts Equip.

TIMERS, CHRONOGRAPH
Jardur Import Co.

TIMERS, DARKROOM
Aaron & Associates
Baco Accessories Co.
Burke & James, Inc.
Dimco-Gray Co.
Dixie Controls Co.
Eastman Kodak Co.
The FR Corporation
General Photographic Supply
Lektra Laboratories, Inc.
Norman-Willets Co.
M. H. Rhodes, Inc.
Sears, Roebuck & Co.
Service Photo Suppliers
Walser Automatic Timer Corp.
Wil-Mar Co.

TONERS
Alves Photo Service
Ansco
Braun Laboratories
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
The FR Corporation
Gross Photo Supply Co.
Alvin Lohnes Co.
Merix Chemical Co.
George Murphy, Inc.
National Chemical Co.
Retouch Methods Co.
Webster Brothers Lab.

TRAYS
Artisan Guild
Brown Coating & Equip. Co.
Calumet Mfg. Co.
Columbian Enameling & Stamping Co., Inc.
Dayton Rogers Manufacturing Co.
Duophoto Corp.
Eastman Kodak Co.
Oscar Fisher Co., Inc.
The FR Corporation
Franklin M. Morgan
Testrite Instrument Corp.
United Photo Tray Co.
Urell, Inc.
Windman Brothers

TRIMMERS
American Photo Laboratories
Milton Bradley Co.
Chandler Machine Co.
Delta Foreign Sales Corp.
Duophoto Corp.
Eastman Kodak Co.
Edi Trimming Machines
General Photographic Supply Co.
Ideal School Supply Co.
Laukhuff Mfg. Co.
Photo Materials
Sears, Roebuck & Co.

TRIMMERS—DECKLE
Chandler Machine Co.
Delta Foreign Sales Corp.

TRIPODS
A. G. Photo Distributors
Alco Photo Supply Corp.
American Camera & Photo. Supply Co.
American Photographic Inst. Co.
American Products Co.
Ansco
Arrow Metal Products
Artcrafters Industries
Baco Accessories Co.
Bell & Howell Co.
Bernard Products
Saul Bower, Inc.
Burke & James, Inc.
Camera Equipment Co.
The Camera Mart, Inc.
Camera Specialty Co.
Cleveland Instrument Service Co.
Davidson Manufacturing Co.
Delta Foreign Sales Corp.
Director Products Corp.
Eastman Kodak Co.
Empire Photo Accessory Mfg. Co.
Ertler Photo Equipment
Fox Products
Garden & Williams
General Photographic Supply Co.
Gundlach Mfg. Corp.
Kalart Co., Inc.
Kinnard Company
Kling Photo Supply
Lightning-Lite Co.
Howard B. Marks Co.
Mitchell Camera Co.
Otto Engineering Co.
Pagliuso Engineering Co.
Photographic Importing & Distributing Corp.
Printex Products
Quick-Set, Inc.
Radiant Specialty Corp.
Read Photo Products
Sears, Roebuck & Co.
Service Photo Suppliers
Spiratone
Sun Ray Photo Corp.
Superior Specialty Co.
Testrite Instrument Co., Inc.
W-K Manufacturing Co.
Wil-Sel Products Co.

TRIPODS, ROLLING
Camera Equipment Co.
L. F. Deardorff & Sons Co.
Lightning-Lite Co.
Read Photo Products

TRIPOD ACCESSORIES
A. G. Photo Distributors
Arrowhead, Inc.
B-T Co.
Baco Accessories Co.
Saul Bower, Inc.
Brownie Specialty Shop
Burke & James, Inc.
Burleigh Brooks Co.
Delta Foreign Sales Co.
Effen Products
Heitz & Lightburn
Howard B. Marks
Photo Equipment Manufacturing Co.
Quick-Set, Inc.
Scientific Enterprises
Superb Photo Accessories Co.
Wil-Sel Products Co.

Extensions
Arrowhead, Inc.
Eastman Kodak Co.
Photographic Products, Inc.

Heads
Ace Photo Equipment Co.
American Products Co.
Arel, Inc.
Arrow Metal Products Co.
B-T Co., Inc.
Baco Accessories Co.
Saul Bower, Inc.
Brownie Specialty Shop
Burke & James, Inc.
Camera Equipment Co.
The Camera Mart
Camera Optics Mfg. Co.
Camera Specialty Co.
DeGroff Laboratories
Eastman Kodak Co.
Effen Products
Empire Photo Accessory Mfg. Co.
Garden & Williams
General Photographic Supply Co.
Heitz & Lightburn
Kling Photo Supply
E. Leitz, Inc.
Mitchell Camera Co.
George Murphy, Inc.
Otto Engineering Co.
Pagliuso Eng. Co.
Panogear Industries
Photographic Importing & Distributing Corp.
Quick-Set, Inc.
Radiant Specialty Corp.
Read Photo Products
Sears, Roebuck & Co.
Service Photo Suppliers
Spiratone
Testrite Inst. Co., Inc.
Wil-Sel Products Co.

Tabletops
Saul Bower, Inc.
DeGroff Lab., Inc.
General Photographic Supply Co.
George Murphy, Inc.
Testrite Inst. Co., Inc.
Wm. R. Whittaker Co., Ltd.
Wil-Sel Products Co.

Tips—Non-Slip
American Products Co.
Eastman Kodak Co.
Effen Products

VENTILATORS
Artisan Guild
W. B. Connor Engrg. Corp.
Elkay Photo Products, Inc.
The Holms Co.
ILG Electric Ventilating Co.
Midg-O Co.
Franklin M. Morgan
George Murphy, Inc.
NuTone, Inc.
Raytheon Manufacturing Co.
Small Motors, Inc.
Universal Yonkers Corp.

VIEWERS
Large Transparency
Artisan Guild
Baco Accessories Co.
Brumberger Co.
Clay-Adams Co., Inc.
Craftsmen's Guild
FR Corporation
Moviette, Inc.
S. E. Overton Co.
Ponder & Best, Inc.
Sawyer's, Inc.

Stereoscopic
Brumberger Co.
Busch Camera Corp.
Craftsmen's Guild
Deep-Vue Corp.
Holson Binders, Inc.
Keys Stereo Products
Polaroid Corp.
Radex Stereo Co.
Sawyer's, Inc.
Tru-Vue Co.
Universal Camera Corp.
David White Co.

VIEWFINDERS
Alfa Photo Corp.
Arrowhead, Inc.
Bill Ball
Bell & Howell
Burke & James, Inc.
Busch Camera Corp.
Curtis Laboratories, Inc.
Elgeet Optical Co.
Grover Photo Products
Arthur H. Hart
Kling Photo Supply
E. Leitz, Inc.
George Murphy, Inc.
Photographic Importing & Distributing Corp.
Printex Products
Starr Corp.
Wollensak Optical Co.

WASHING DEVICES
Arel, Inc.
Arkay Corp.
Artisan Guild
Brown Coating & Equip. Co.
Burke & James, Inc.
Delta Foreign Sales Corp.
Eastman Kodak Co.
A. J. Ganz Co.
Hydrojet Corp.
Kingdon Photo Accessories Co., Inc.
Lenz Washer Co.
Franklin M. Morgan
George Murphy, Inc.
Richard Manufacturing Co.
Robar Photo Equipment Co.
Superior Specialty Co.

WATER FILTERS
Alsop Engineering Corp.
Barnstead Still & Sterilizer Co.
Commercial Filters Corp.
Crystal Research Labs., Inc.
Elkay Photo Products, Inc.
Filter-Kleen Manufacturing Co.
Oscar Fisher Co., Inc.
La Motte Chemical Products Co.
Lishing Products
Mansfield Aqua-Mite Filter Co.
Penfield Mfg. Co., Inc.
A. E. Tomkins & Co.

WETTING AGENTS
Ace Photo Laboratories
Alden Manufacturing Co.
Arel, Inc.
Atkinson Laboratories
Carbide & Carbon Chemicals Co.
Curio Photo Co.
Director Products Corp.
Eastman Kodak Co.
Edwal Laboratories
Lockrey Co.
Merix Chemical Co.
Mimosa-American Corp.
George Murphy, Inc.
National Chemical Co.
Urell, Inc.

MANUFACTURERS and DISTRIBUTORS

A

A-G Photo Distributors, 44 Bromfield St., Boston 8, Mass.
"A—to—Z" Movie Accessories, 175 5th Ave., New York 10, N. Y.
A F P Distributors, 1600 Broadway, New York, N. Y.
A. P. Products, Norwood Ave., Deal, N. J.
Aabalton's Photofit Co., 131 W. 42nd St., New York 18, N. Y.
Irving I. Aaron & Associates, Inc., 829 N. Marshall St., Milwaukee 2, Wis.
Abbeon Supply Co., 179-15 Jamaica Ave., Jamaica 3, N. Y.
Ace Photo Equipment Co., 606 Mattison Ave., Asbury Park, N. J.
Ace Photo Laboratories, 316 W. Washington St., Chicago 6, Ill.
Ace Scientific Labs., 19459 Montara, So. Gate, Calif.
Acme-Lite Manufacturing Co., 401 North Wood St., Chicago 22, Ill.
Acra Instruments, Div. of Pacific Universal Products Corp., 168 Vista Ave., Pasadena 8, Calif.
Adams Retouching Machine Co., 737 Lincoln St., Denver 3, Colo.
Advance Cine Equipment Co., 110 W. 42nd St., New York, N. Y.
Advertising Displays, Inc., 419 Pike St., Covington, Ky.
Airequipt Manufacturing Co., Inc., 19 Hudson St., New Rochelle, N. Y.
Aladdin Industries, 4 E. 32nd St., New York, N. Y.
Albert Specialty Co., 231 S. Green St., Chicago, Ill.
Alburger Research Products Co., 7354 Santa Monica Blvd., Hollywood 46, Calif.
Alco Photo Supply Corp., 902-910 Broadway, New York 10, N. Y.
Alden Manufacturing Laboratories, P.O. Box 204, Banning, Calif.
Aldine Paper Co., 535 5th Avenue, New York 17, N. Y.
Alfa Photo Corp., 303 W. 42nd St., New York 18, N. Y.
Algonkin Co., 7 W. Church St., Mansfield, Mass.
Alkon Photo Products, Inc., 698 E. 142nd St., Bronx 54, N. Y.
Alsop Engineering Corp., 48 Leavenworth St., Milldale, Conn.
Ralph Altman, 502 S. Wabash Ave., Chicago 5, Ill.
Alves Photo Service, 14 Storrs Ave., Braintree, Mass.
American Binder Co., Inc., 230 Taaffe Pl., Brooklyn 5, N. Y.
American Camera & Photo Supply Co., 66 E. Randolph St., Chicago 1, Ill.
American Cinefoto Corp., 1560 Broadway, New York 19, N. Y.
American Optical Co., Scientific Instr. Div., Box A, Buffalo 15, N. Y.
American Photo Laboratories, 28 N. Loomis St., Chicago 7, Ill.
American Photographic Instrument Co., 241 W. 27th St., New York 1, N. Y.
American Products Co., 3308 Edson Ave., New York 69, N. Y.
American Speedlight Corp., 480 Lexington Ave., New York 17, N. Y.
Amglo Corporation, 2037 W. Division St., Chicago, Ill.
Amico Camera Co., 131 Genesee St., Utica, N. Y.
Ampro Corporation, 2835 N. Western Ave., Chicago 18, Ill.
Anken Company, Newton, N. J.
Ansco, A Div. of Gen. Aniline & Film, 175 Clinton St., Binghamton, N. Y.
Apel Photo Products, 3118 W. Marquette Rd., Chicago 29, Ill.
Apollo Metal Works, 6650 S. Oak Park Ave., Chicago 38, Ill.
Appleton-Funk, 1513 Tremont Pl., Denver 2, Colo.
Arabol Manufacturing Co., 110 E. 42nd St., New York, N. Y.
Arcadia Manufacturing Co., Inc., 2646 W. North Ave., Chicago 47, Ill.
Adam Archinal Corp., 10 W. 33rd St., New York 1, N. Y.
Aret, Inc., 4916 Shaw Blvd., St. Louis 10, Mo.
Argus, Inc., Fourth & Williams St., Ann Arbor, Mich.
Aristo Grid Lamp Products, Inc., 106-23 Metropolitan Ave., Forest Hills, N. Y.
Arkay Corp., 1570 S. 1st Ave., Milwaukee 4, Wis.
Arrow Metal Products, 128 N. Jefferson St., Chicago 6, Ill.
Arrowhead, Inc., 360 S. Navajo St., Denver 19, Colo.
Artcrafters Industries, 158 S. Collingsworth Road, El Paso, Tex.
Artisan Guild, 1903 University Center, Cleveland 6, Ohio
Artists Supply Co., 7610 Decker Ave., Cleveland 3, Ohio
Atkinson Laboratory, 7273 Santa Monica Blvd., Hollywood 46, Calif.
August Camera Repair, 611 N. Harper Ave., Hollywood 48, Calif.
Aurora Industries, Inc., 2251 S. Michigan Ave., Chicago 16, Ill.
Avery Adhesive Label Corp., 1616 S. California Ave., Monrovia 1, Calif.

B

The B.M.D. Mfg. Co., P.O. Box 486, Lakeview, Ohio
B-T Co., 277 E. Erie St., Milwaukee 2, Wis.
B. & V. Camera Repair Service, 21 E. Van Buren St., Chicago 5, Ill.
Semon Bache & Co., Greenwich & Morton Sts., New York 14, N. Y.
Baco Accessories Co., 5338 Hollywood Blvd., Hollywood 27, Calif.
Bill Ball, 3315 Ardley Ave., Oakland 2, Calif.
The Barco Chemical Products Co., 701 S. La Salle St., Chicago 5, Ill.
Bardwell & McAlister, 2950 Ontario St., Burbank, Calif.
Barnett & Jaffe, 6100 N. 21st St., Philadelphia 38, Pa.
Barnstead Still & Sterilizer Co., 2 Lanesville Terrace, Forest Hills, Boston 31, Mass.
Bauman Camera Repair Laboratory, 109½ E. Ocean Blvd., Long Beach, Calif.
Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
Bawden Brothers, Inc., 121 E. 3rd St., Davenport, Iowa
Bell & Howell Co., 7100 McCormick Rd., Chicago 45, Ill.
Bellows Supply Co., 1046 S. Olive St., Los Angeles 15, Calif.
The Bennett Co., 837 Howard St., San Francisco 3, Calif.
Berndt-Bach, Inc., 7393 Beverly Blvd., Los Angeles 36, Calif.
Lou Bertz Specialties, 6470 Santa Monica Blvd., Hollywood 38, Calif.
Charles Beseler Co., 60 Badger Ave., Newark 8, N. J.
Biber Foto Corp., 153 W. 23rd St., New York 11, N. Y.
Birch-Field Laboratories, 1620 Shepard Ave., Hamden, Conn.
Blossom Manufacturing Co., 915 Broadway, New York 10, N. Y.
Bobs Camera Service, 2884 Childs Ave., Ogden 18, Utah
F. A. Bohling, 246 W. 44th St., New York, N. Y.
Bolsey Corporation of America, 118 E. 25th St., New York, N. Y.
Bourges, Inc., 106 5th Ave., New York 11, N. Y.
Saul Bower, Inc., 114 Liberty St., New York 6, N. Y.
Stanley Bowmar Co., 513 W. 166th St., New York 32, N. Y.
Bradfield & Bidwell, 308 N. Main St., Ann Arbor, Mich.
Milton Bradley Co., 74 Park St., Springfield, Mass.
Brand Camera Co., 907 S. Victoria Blvd., Burbank, Calif.
Braquette, Inc., Box C, Lee, Mass.
Braun Laboratories, 206 S. Hutchinson St., Philadelphia 7, Pa.
O. S. Braunstein, 206 S. Hutchinson St., Philadelphia 7, Pa.
Bridgeport Brass Co., 30 Grand St., Bridgeport, Conn.
Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
Brooklyn Mailing Device Co., 228 Grand St., Brooklyn 11, N. Y.
Brooks Manufacturing Co., 1514 Groesbeck Rd., Cincinnati 24, Ohio
Brown Coating & Equipment Co., 200 Pennsylvania Ave., Wellston, Ohio
Brown-Forman Industries, P. O. Box 1080, Lexington 1, Ky.
Brownie Manufacturing Co., 55 Frankfort St., New York 38, N. Y.
Brownie Specialty Shop, 600 Poplar St., Fenton, Mich.
Brumberger Co., Inc., 34 34th St., Brooklyn 32, N. Y.
Brunner-Booth Photo Co., 2300 Payne Ave., Cleveland, Ohio
Brush-A-Photo Co., Metropolitan Life Bldg., Minneapolis, Minn.
Brush Development Co., 3405 Perkins Ave., Cleveland 14, Ohio
Buhl Optical Co., 1009 Beech Ave., Pittsburgh, Pa.
Burgess Battery Co., Battery Division, Foot of Exchange St., Freeport, Ill.
Burke & James, Inc., 321 S. Wabash Ave., Chicago 1, Ill.
Burleigh Brooks Co., 10 W. 46th St., New York 36, N. Y.
Burroughs Inc., Box 252, Greene, Iowa
Busch Camera Corp., 500 S. Clinton St., Chicago 7, Ill.
Lawrence Butler, 127 N. Dearborn St., Chicago, Ill.
G. A. Buttafarri, 207 Fourth Ave., New York 3, N. Y.
John Byrnes Co., 33 Lyman St., Springfield, Mass.

C

CBS Laboratories, 561 Crescent Ave., Buffalo 14, N. Y.
CVD Co., 516 Fuller Ave., Helena, Mont.
Cadwell Corp., 400 N. Camden Dr., Beverly Hills, Calif.
Cal-Cam, 1564 N. Grand Oaks Ave., Pasadena 7, Calif.
Caltron Co., 1406 S. Hobart Blvd., Los Angeles 6, Calif.
Calumet Mfg. Co., 2326 S. Michigan Ave., Chicago 16, Ill.
Calvin Co., 1105 Truman Rd., Kansas City 6, Mo.
Camera Clinic, 8028 Woodland, Kansas City 5, Mo.
Camera Clinic, 308 S. Phillips, Sioux Falls, S. D.
Camera Corporation of America, 844 W. Adams St., Chicago, Ill.
Camera Craft Inc., 210 North Ave., New Rochelle, N. Y.
Cameracraft, Inc., 1229 McGee, Kansas City 6, Mo.
Camera Equipment Co., 1600 Broadway, New York 19, N. Y.
Camera-flex Corp., 1947 Broadway, New York 23, N. Y.
The Camera Mart, Inc., 1845 Broadway, New York 23, N. Y.
Camera Optics Mfg. Corp., 101 W. 47th St., New York 19, N. Y.
Camera Repair Serv. of San Diego, 339 Spreckels Bldg., San Diego 1, Calif.
Camera Research & Repair, 949 E. 103rd St., Los Angeles 2, Calif.
Camera Service Center, 204 Lisbon St., Lewiston, Me.
Camera Services, Inc., 51 Barclay St., New York 7, N. Y.
Camera Specialty Co., 50 W. 29th St., New York 1, N. Y.
The Camille Co., Inc., 19 Rockwell Pl., Brooklyn 1, N. Y.
Ray Campbell & Co., 1822 Hyperion Ave., Los Angeles 21, Calif.
Campus Camera Shop, 1083 Broxton Ave., Los Angeles 24, Calif.
Can-Pro, 100 McWilliam St., Fond du Lac, Wis.
Capitol Stage Lighting Co., 527 W. 45th St., New York 19, N. Y.
Carbide and Carbon Chemicals Co., a Division of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Carr Corp., 9046 Lindblade St., Culver City, Calif.
Carter Motor Co., 2655 N. Maplewood Ave., Chicago, Ill.
Castle Photo Service, 916 S. Ash, Wichita 9, Kans.
Cellux Electronic Corp., 8 Williams St., Boston 19, Mass.
Central Camera Repair Co., 230 S. Wabash Ave., Chicago 4, Ill.
Central States Camera Repair, 3116 E. Douglas, Wichita, Kans.
Century Photo Supply, Box 717, No. Hollywood, Calif.
Certified Scientific Co., 1245 Devon Ave., Chicago, Ill.
Champion Manufacturing Co., 327 Main St., Orange, N. J.
Chandler Machine Co., Ayer, Mass.
Chemipure Labs., 170-06 Hillside Ave., Jamaica 3, L. I., N. Y.
Chemoptics, Inc., 49 W. 19th St., New York 11, N. Y.
Chess-United Co., Inc., 200 N. Water St., Peekskill, N. Y.
Chicago Camera Specialists, Stevens Bldg., 17 N. State St., Rm. 1609, Chicago 2, Ill.
Chilcote Co., 2140 Superior Ave., Cleveland, Ohio.
Churchill Laboratories, 203 S. Branch Pkwy., Springfield 9, Mass.
Cinelac Co., 610 Fifth Ave., New York 20, N. Y.
Cinema Products, P.O. Box 271, Louisville, Ky.
Cinetech Co., Inc., 106 West End Avenue, New York 23, N. Y.
Cinklox Camera Co., also Cincinnati Clock & Instrument Co., 1113 York St., Cincinnati 14, Ohio
Circle "S" Products Co., 3051 N. Sheffield Ave., Chicago 14, Ill.
Ciro Cameras Inc., 425 S. Sandusky, Delaware, Ohio
Cisco (see Waring-Cleveland Instrument Co., Inc.)
H. C. Clark, 107 Pleasant Ave., Box 221, Cashmere, Wash.
Clarkstan Corp., 11921 W. Pico Blvd., Los Angeles 64, Calif.
Clay Adams Co., 141 E. 25th St., New York 10, N. Y.
Clingtite Products Co., 4844 S. Ashland Ave., Chicago 9, Ill.
Geo. W. Colburn Labs., 164 N. Wacker Dr., Chicago 6, Ill.
Colorado Bellows Service, 1513 Tremont Pl., Denver 2, Colo.
Colortran Converter Co., 7045 Romaine St., Hollywood 38, Calif.
Colrod Manufacturing Co., Inc., 4503 Dodds Ave., Chattanooga 7, Tenn.
Columbian Enameling & Stamping Co., 5036 Beach St., Terre Haute, Ind.
Commercial Filters Corp., 18 W. 3rd St., Boston 27, Mass.
Commercial Metal Products Co. (see Compco)
Commercial Paste Co., 504 Buttles Ave., Columbus 8, Ohio
Compco Corporation, 2251 W. St. Paul Ave., Chicago 47, Ill.
Compro-Flash, P. O. Box 3088, Rochester 14, N. Y.
Condit Manufacturing Co., 37 Lakeview Terrace, Staten Island 5, N. Y.
W. B. Connor Eng. Co., Danbury, Conn.
Consolidated Instrument Laboratory, 976 St. Paul St., Denver 6, Colo.
Consolidated Instrument Parts Co., 23 E. 26th St., New York 16, N. Y.
Continental Photographic Labs., Box 44, San Francisco, Calif.
Cook's, Inc., 780 Wright Ave., Camden 1, N. J.
Cooper Photographic Sales Co., 74 Sacramento St., San Francisco 11, Calif.
Copydaptor Co., 1565 Grand Concourse, Bronx 52, N. Y.
Craftex Products Corp., 1112 N. Seward, Hollywood 28, Calif.
Craftint Manufacturing Co., 1615 Collamer Ave., Cleveland 10, Ohio
Craftmount Co., 200 Race St., Holyoke, Mass.
Craftsman Camera Cases, 67 Park Pl., New York 7, N. Y.
Craftsmen's Guild, 1001 N. Orange Dr., Hollywood

38, Calif.
Crystal Research Labs., Inc., Hartford, Conn.
George Culbertson, 5133 Juanita Ave., Minneapolis 10, Minn.
Curio Photo Co., 1187 Jerome Ave., New York 52, N. Y.
Curtis Laboratories, Inc., 2718 Griffith Park Blvd., Los Angeles 27, Calif.
Custom Built Camera Accessories Co., 5712 Cedar Springs, Dallas 9, Tex.
Cyclops Products Corp., 1427 Nelden Rd., West Englewood, N. J.

D

Da-Lite Screen Co., 2711 N. Pulaski Rd., Chicago 39, Ill.
Robert M. Daly, 2025 Broadway, New York 23, N. Y.
Dassonville, Ltd., Newton, N. J.
D. A. Davenport Manufacturing Co., 624 Hanley St., Gary, Ind.
Davidson Manufacturing Co., 5146 Alhambra Ave., Los Angeles 32, Calif.
The Davies Labs., Inc., 4705 Queensbury Rd., Riverdale, Md.
Dayton Rogers Manufacturing Co., 2824 13th Ave. S., Minneapolis 7, Minn.
L. F. Deardorff & Sons, Inc., 11 S. Desplaines St., Chicago 6, Ill.
Dee Bee Labs., 6 N. Broadway, Aurora, Ill.
Deep-Vue Corp., 2717 W. Lisbon Ave., Milwaukee 8, Wis.
De Groff Laboratories, Inc., 228 W. Jefferson Blvd., South Bend 2, Ind.
DeJur-Amsco Corp., 45-01 Northern Blvd., Long Island City 1, N. Y.
Delta Brush Mfg. Corp., 119 Bleecker St., New York 12, N. Y.
Delta Foreign Sales Corp., 150 Nassau St., New York 7, N. Y.
Delta Photo Supply Co., 239 E. 44th St., New York 17, N. Y.
Detroit Cam. Works, 19944 Livernois St., Detroit 21, Mich.
Development Engineering Co., 724 S. Wise St., Decatur, Ill.
Devolite Corp., 125 W. 45th St., New York 19, N. Y.
Diamant Products Co., 41 W. 24th St., New York 10, N. Y.
Diamond Case Div., Louis Lefkowitz & Bro., Inc., 25 Water St., New Brunswick, N. J.
Di Carlo Crystal Etcher Co., 819 18th Ave., Irvington, N. J.
Dimco-Gray Co., 207 E. 6th St., Dayton 2, Ohio.
Director Products Corp., 570 5th Ave., New York 9, N. Y.
Dixie Controls Co., Lafayette Station, Norfolk, Va.
Dormitzer Electric & Mfg. Co., Inc., 89 Brighton Ave., Boston 34, Mass.
Douglas Art Metal, 920 Ossingington Ave., Toronto 4, Ontario, Can.
Dover Film Corp., 151 Hallet St., Boston 24, Mass.
Dowling's, Inc., 570 5th Ave., New York 19, N. Y.
Dunningcolor Corp., Motion Picture Labs., 932 N. LaBrea Ave., Hollywood 38, Calif.
Duophoto Corp., 30 W. 25th St., New York 10, N. Y.
E. I. du Pont de Nemours & Co. (Inc.), Photo Products Dept., Wilmington 98, Del.
Dura Electric Lamp Co., Inc., 64 E. Bigelow St., Newark 5, N. J.
Durable Fibre Sample Case Co., 207 Wooster St., New York 12, N. Y.
Dyacol Products Lab., P.O. Box 192, San Francisco, Calif.
Dynacolor Corp., 175 N. Main St., Albion, N. Y.

E

Eagle Photo Supply Co., Div. of George Murphy, Inc., 57 E. 9th St., New York 3, N. Y.
Eastern Film Libraries, 148 Grand St., Waterbury 2, Conn.
Eastern Photo Co., Inc., 283 Congress St., Boston 10, Mass.
Eastman Kodak Co., 343 State St., Rochester 4, N. Y.
Ebe Manufacturing Co., 818 Swede St., Norristown, Pa.
Edi Trimming Machines, 9940 Robbins Dr., Beverly Hills, Calif.
Edmund Scientific Corp., 101 E. Gloucester Pike, Barrington, N. J.
Ednalite Optical Co., Inc., 200 N. Water St., Peekskill, N. Y.
Edwal Labs., Inc., Ringwood, Ill.
Effen Products, 447 Bergen St., Brooklyn 17, N. Y.
Elgeet Manufacturing Co., 838 Smith St., Rochester 6, N. Y.
Elite Custom Titling Service, P.O. Box 526, Minneapolis, Minn.
Elkay Photo Products, Inc., 287 Washington St., Newark 2, N. J.
Elstan Distributing Corp., 345 Broadway, New York 13, N. Y.
Elwood Pattern Works, Inc., 125 N. East St., Indianapolis 4, Ind.
Emde Products, 2028 Stoner Ave., Los Angeles 25, Calif.
Empire Photo Accessory Mfg. Co., 123 Prince St., New York, N. Y.
Engel Art Corners Mfg. Co., 4711 N. Clark St., Chicago 40, Ill.
Enteco Industries, Inc., 610 Kosciusko St., Brooklyn 21, N. Y.
Epco Products, Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
Ercona Camera Corp., 527 5th Ave., New York 17, N. Y.
Erie Scientific Corp., 693 Seneca St., Buffalo 10, N. Y.
Ertler Photo Equipment, 113 St. Clair Ave., N. E., Cleveland 14, Ohio
Escar Motion Picture Service, Inc., 7315 Carnegie Ave., Cleveland 3, Ohio
Eso-S, Inc., 47 & Holly, Kansas City 2, Mo.
Evaporated Metal Films Corp., P. O. Box 606, Ithaca, N. Y.
Exakta Camera Co., Inc., 46 W. 29th St., New York 1, N. Y.
Excel Movie Products, Inc., 853 Dundee, Elgin, Ill.

F

FR Corporation, 951 Brook Ave., New York 56, N. Y.
Fedco Products, 37 Murray St., New York 7, N. Y.
Federal Instrument Corp., 14-02 Broadway, Long Island City 6, N. Y.
Federal Manufacturing & Engineering Corp., 199-217 Steuben St., Brooklyn 5, N. Y.
Felix Dist. Co., 542 S. Dearborn St., Chicago 5, Ill.
Ferolene Sales Co., 1467 E. 78th St., Kansas City, Mo.
Fiberbilt Case Co., 40 W. 17th St., New York 11, N. Y.
Fibre Case & Novelty Co., Inc., 42 E. 20th, New York 3, N. Y.
Fidelity Manufacturing Co., 5147 W. Jefferson St., Los Angeles 16, Calif.
Filter-Kleen Manufacturing Co., 314 Chelsea St., Everett 49, Mass.
Fischer Photo Products, 67 Park Pl., New York 7, N. Y.
Oscar Fisher Co., Inc., 1000 N. Division St., Peekskill, N. Y.
Flashback Sales, 118 Windsor St., Kearny, N. J.
Forway Corp., 245 W. 55 St., New York 19, N. Y.
Fotofix Camera Repairs, Morrisania P. O. Box 162, New York 56, N. Y.
Foto-Rule Co., 509 S. Myrtle Ave., Monrovia, Calif.
Foto-Tek, 3663 S. E. 38th Ave., Portland 2, Ore.
Fowler Co., 1432 N. Orleans, Chicago 10, Ill.
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
Fred Frankel & Sons, 28 W. 38th St., New York 18, N. Y.
Fulton Co., 1258 S. Gramercy Pl., Los Angeles 6, Calif.

G

G-M Laboratories, 4300 N. Knox St., Chicago 41, Ill.
Galileo Corp. of America, 30 E. 60th St., New York 22, N. Y.
Gallinger Bros., Inc., 1829 Flatbush Ave., Brooklyn 10, N. Y.
Gamma Instrument Co., 261 Great Neck Rd., Great Neck, Long Island, N. Y.
A. J. Ganz Co., 7457 Melrose Ave., Hollywood 46, Calif.
Garden & Williams, 3266 W. Pico Blvd., Los Angeles 6, Calif.
Geiss-American, 6424 N. Western Ave., Chicago 45, Ill.
GE Mounts, 5817 Sheridan, Detroit 13, Mich.
General Camera Co., 6424 N. Western Ave., Chicago 45, Ill.
General Camera Repair Shop, 278 Post St., San Francisco 8, Calif.
General Control Co., 1200 Soldiers Field Rd., Boston 34, Mass.
General Electric Co., Lamp Dept., Nela Park, Cleveland, Ohio.
General Electric Co., Instrument Section, 40 Federal St., Lynn, Mass.
General Photo Products Co., Inc., 15 Summit Ave., Chatham, N. J.
General Photographic Supply Co., 136 Charles St., Boston 14, Mass.
General Products, 4234 N. Lincoln Ave., Chicago 18, Ill.
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.
G. Gennert Co. of California (General Photo Graphic), 1153 Wall St., Los Angeles, Calif.
Raymond Georg, 424 E. Edwards St., Springfield, Ill.
Germain Photo Specialties, 225 Broadway, New York 7, N. Y.
Gevaert Co. of America Inc., 423 W. 55th St., New York 19, N. Y.
Gilbert Supply Co., 319 Sullivan Ave., Waterloo, Ia.
Glen Camera Products, Box 905, Sea Cliff, N. Y.
Glo-Brite Products, Inc., 6415 N. California Ave., Chicago 45, Ill.
C. P. Goerz American Optical Co., 317 E. 34th St., New York 16, N. Y.
Goetz & Ruschmann, 97 Newark Way, Maplewood, N. J.
Goldberg Brothers, P. O. Box 448, Denver 1, Colo.
GoldE Manufacturing Co., 1220 W. Madison St., Chicago 7, Ill.
Golden "B" Mfg. Co., Inc., 2132 W. 15th St., Cleveland, Ohio.
Gopher Lab., P.O. Box 2672, Highland Station, Minneapolis 1, Minn.
Gordon Enterprises, 5362 N. Cahuenga Blvd., N. Hollywood, Calif.
Gould Lens Service, 26 Franklin Ave., Binghamton, N. Y.
Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y.
Grant Photo Products, Inc., 18915 Detroit Ave., Cleveland 7, Ohio
Graphic Economy Developer Co., 1624 S. Trumbull Ave., Chicago 23, Ill.
Grey-al Dye Co., P. O. Box 1803, Hollywood 28, Calif.
Griscombe Prod., Inc., 23 Beekman St., New York 7, N. Y.
Griswold Machine Works, 412 Main St., Port Jefferson, N. Y.
Gross Photo Supply Co., 397 Phillips Ave., Toledo 12, Ohio
Grossman Electrical Specialties Co., Inc., 32 Union Square East, New York 3, N. Y.
Grosso's Movie Titles, 173 Norman Rd., Newark 6, N. J.
Grover Photo Products, 2753 El Roble Dr., Los Angeles 41, Calif.
Gundlach Manufacturing Corp., Fairport, N. Y.

H

H & H Mfg. Co., 833 S. Ludlow St., Dayton 2, Ohio.
H & S Printing Co., 296 Pearl St., New York 38, N. Y.
Haca Supplies, 183 Sherman Ave., N., Hamilton, Ontario, Canada
Hall-Barkan Instrument Co., Inc., 181 Marblehead Rd., Tuckahoe, N. Y.
Hallen Corp., 3503 W. Olive St., Burbank, Calif.
The Haloid Co., 2-20 Haloid St., Rochester 3, N. Y.
Rodger Wm. Hammill, Franklin Park, Ill.
Harrison & Harrison, 6363 Santa Monica Blvd., Hollywood 38, Calif.
Arthur H. Hart, 2125 32nd Ave., San Francisco 16, Calif.
The Hartley Co., 1087 Manzanita Ave., Pasadena 3, Calif.
Harvey Photochemicals, Inc., Newton, N. J.
Harwood Mfg. Co., 2341 Wabansia Ave., Chicago 47, Ill.
Heiland Research Corp., 130 E. 5th Ave., Denver 9, Colo.
Oscar Heinemann, 126 W. 32nd St., New York, N. Y.
Heitz & Lightburn, 150 W. 54th St., New York 19, N. Y.
Henzoldt Labs., 1060 Broad St., Newark, N. J.
Herold Mfg. Co., 711 W. Lake St., Chicago 6, Ill.
Herron Optical Co., 705 W. Jefferson Blvd., Los Angeles 7, Calif.
Hershey Mfg. Co., 135 S. La Salle St., Chicago 3, Ill.
Arthur Hertzberg & Craftsmen, Inc., 3325 Lincoln Ave., Chicago 13, Ill.
Higgins Ink Co., Inc., 271 9th St., Brooklyn 15, N. Y.
High Class Camera Repair Co., 209 Loeb Arcade, Minneapolis, Minn.
Hinson Manufacturing Co., P. O. Box 480, Waterloo, Ia.
Henry Hjort, 84 Bay Terrace Ave., Staten Island 6, N. Y.
The Hobar Co., Inc., 208 5th Ave., New York, N. Y.
Holland Cam. Repair Lab., Dept. P, 2041 S. University Blvd., Denver 10, Colo.
Hollyslide Co., Inc., 6264 Sunset Blvd., Hollywood 28, Calif.
Hollywood Camera Exchange, Ltd., 1600 N. Cahuenga, Hollywood, Calif.
Hollywood Cine Products Co., P. O. Box 22, Lakeland Village, Elsinore, Calif.
Hollywood Precision Laboratories, 2428 Canyon Drive, Hollywood 28, Calif.
Holms Co., The, 2468 W. 19th St., Milwaukee 6, Wis.
Holson Binders, Inc., 762 Wythe Ave., Brooklyn 11, N. Y.
Hydrojet Corp., 300 W. Jefferson, Trenton, Mich.

I

Ideal Film & Supply Co., 243 W. 55th St., New York 19, N. Y.
Ideal School Supply Co., 8316 Birkhoff Ave., Chicago 20, Ill.
Ilex Optical Co., 690 Portland Ave., Rochester 5, N. Y.
ILG Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
Industrial Devices, Inc., 22 State Rd., Edgewater, N. J.
Industrial Electrical Works, 1509 Chicago St., Omaha, Nebr.
Industrial Tape Corp., New Brunswick, N. J.
Industrial Timer Corp., 114 Edison Pl., Newark 5, N. J.
International Cam. Corp., 846 W. Adams St., Chicago 7, Ill.
International Camera Co., 917 Western Ave., Glendale, Calif.
International Flare Signal Co. (See Kilgore Manufacturing Co.)
International Sales Co., 414 E. Baltimore St., Baltimore 2, Md.
Interstate Picture Frame Co., 902 Rogers Ave., Brooklyn 26, N. Y.
Inventions, Inc., 3757 N. Racine Ave., Chicago 13, Ill.

J

Jack-O-Gram Studios, 152 W. 42nd St., New York 18, N. Y.
Jackson Laboratories, 27 Cam Gore, Webster Groves 19, Mo.
Jacksons' Camera Store, 132 S. Miami Ave., Miami 36, Fla.
Jardur Import Co., 874 Broadway, New York 3, N. Y.
Jay-Bee Electronic Labs., P. O. Box 131, Trenton, N. J.
Jen Products, Inc., 419 W. 42nd St., New York 18, N. Y.
Andrew Jeri Co., Inc., 1700 Broadway, New York 19, N. Y.
Johnson Ventlite Co., 4619 W. Harrison St., Chicago 44, Ill.
Johnston's Snow White Products, P. O. Box 207, Mumford, N. Y.

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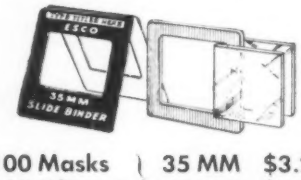

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The Kelsey Company, Photographic Dept., Meriden, Conn.
Kemlite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
Kenart Devices, Inc., 106-20 Atlantic Ave., Ozone Park 16, N. Y.
Kerman Instrument Co., 407 S. Dearborn St., Chicago 5, Ill.
Keys Stereo Products, 8463 State St., South Gate, Calif.
Keyser Laboratories (see Eastern Photo Supply)
Keystone Manufacturing Co., 151 Hallett St., Boston 24, Mass.
Kilborn Photo Paper, Inc., 2911 First Ave., S. E., Cedar Rapids, Iowa.
Kilgore, Inc., Westerville, Ohio
Kimac Co., Old Greenwich, Conn.
Kine Camera Co., div. of Ocean Photo Supply Co., 11 W. 20th St., New York, N. Y.
Kingdon Photo Accessories Co., Inc., 1200 Madison Ave., New York 28, N. Y.
Kinglife Products Corp., 143 W. Broadway, New York 13, N. Y.
Kingsbacher-Murphy, 1081 N. Vignes St., Los Angeles 12, Calif.
Kinnard Co., 324 West Vine St., Milwaukee 12, Wis.
Kin-O-Lux, Inc., 105 W. 40th St., New York 18, N. Y.
Kirk Plastic Co., 170 E. Jefferson Blvd., Los Angeles 11, Calif.
Klearcite Screen Co., 1428 N. Orleans Ave., Chicago 10, Ill.
Kling Photo Supply Corp., 235 4th Ave., Rm. 803, New York 3, N. Y.
Kloudelka Company, 64 Wooster St., New York 12, N. Y.
Kreuter Leather Goods Co., 1213 1st Ave., Seattle 1, Wash.
The Kriser Corp., 151 11th Ave., New York 11, N. Y.
Krug Haloette Co., 322 Alser Adv., Sumner, Wash.
Krylon, Inc., 2601 N. Broad St., Philadelphia 32, Pa.

L

L. R. T. Industries, 290 Nepperham Ave., Yonkers 2, N. Y.
LaBelle Sales Corp., 510 S. Worthington St., Oconomowoc, Wis.
La France Productions, 108 E. Washington St., San Diego 3, Calif.
LaMotte Chemical Products Co., Towson, Baltimore 4, Md.
Laker Hairspring Service, 93 Nassau St., New York 7, N. Y.
Laukhuff Manufacturing Co., 2979 N. 30th St., Milwaukee 10, Wis.
Lawler Automatic Controls, Inc., 453 N. MacQueston Pkwy., Mt. Vernon, N. Y.
Leatherarts Mfg. Co., 805 W. Sunset Blvd., Los Angeles 12, Calif.
Merrill Lee Co., 3049 E. Grand Blvd., Detroit 2, Mich.
Louis Lefkowitz & Bro., Inc., Diamond Case Div., 25 Water St., New Brunswick, N. J.
E. Leitz, Inc., 304 Hudson St., New York 13, N. Y.
Lektra Laboratories, 154 11th Ave., New York, N. Y.
Lenz Washer Co., P. O. Box 70, Lebanon, Mo.
Harold C. Levie, 108 W. Fayette St., Baltimore 1, Md.
Lisco Products Co., 631 W. Elk Ave., Glendale 4, Calif.
Lightning-Lite Co., 1813 W. 25th St., Cleveland, Ohio.
Lishing Products, 6241 Southwood Ave., St. Louis 5, Mo.
Lockrey Co., 21-02 122nd St., College Point, N. Y.
Alvin Lohnes Co., 452 Parker St., Boston, Mass.
Lott Manufacturing Co., Jamestown, N. Y.
Lumax International, Inc., 489 Sixth Ave., New York 11, N. Y.
Andrew E. Lutz, P. O. Box 5, Syracuse 6, N. Y.

M

M & S Mfg. Co., 5973 S. Figueroa St., Los Angeles 3, Calif.
A. R. Maas Chemical Co., 4570 Ardine St., South Gate, Calif.
R. S. MacCollister, 333 Louisburg St., San Francisco 12, Calif.
Mack's Cameracraft, 2845 N.E. Sandy Blvd., Portland 12, Ore.
Mack Camera Service, 1025 Commerce Ave., Union, N. J.
Mack's Industries, Inc., 184 W. 4th St., Waterloo, Iowa
Laurel Macon Co., 547 S. Crestway, Wichita, Kans.
Macvan Manufacturing Co., 2095 Moore St., San Diego 1, Calif.
Madison Prod. Co., 105 16th St., Toledo 2, Ohio
Magicvulc Co., 121 Crescent St., Brockton 2, Mass.
Maier-Hancock Corp., 12270 Montague St., Pacoima, Calif.
Mallinckrodt Chemical Works, Second & Mallinckrodt, St. Louis 7, Mo.
Mansfield Aqua-Mite Filter Co., 3029 N. Austin Ave., Chicago 34, Ill.
Mansfield Industries, Inc., 1227 W. Loyola Ave., Chicago 26, Ill.
Marathon Photo Supply Co., 200 Park Ave., Wausau, Wis.
Mar-Bar, Inc., 205 S. Beverly Dr., Beverly Hills, Calif.
E. B. Marjoran, 77 South Ave., Rochester 4, N. Y.
Howard B. Marks Co., 210 Loeb Arcade, Minneapolis 2, Minn.
James Marshall, 6011 N. 5th St., Philadelphia, Pa.
John G. Marshall Mfg. Co., Inc., 167 N. 9th St., Brooklyn 11, N. Y.
Paul S. Martin, 235 Commonwealth Ave., Boston 16, Mass.
Martin Products Co., 140 Metropolitan Ave., Brooklyn 11, N. Y.
Mast Development Co., Inc., 2212 E. 12th St., Davenport, Iowa.
Mathkin Products Co., 407 E. 7th St., Newport, Ky.
J. A. Maurer, 37-01 31st St., Long Island City 1, N. Y.
Maurer Photo Co., P. O. Box 412, Galveston, Texas
Mayfair Mfg. Co., 55 Eckford St., Brooklyn 22, N. Y.
Walter A. McCabe Co., East Haddam, Conn.
McGraw Colograph Co., 175 W. Verdugo Ave., Burbank, Calif.
Medo Photo Supply Co. (see Alco)
Melrose Manufacturing Co., 95 Commercial St., Brooklyn 22, N. Y.
Mendelsohn Speedgun Co., Inc., 457 Bloomfield, Bloomfield, N. J.
Meridian Instrument Corp., 150 Lafayette St., New York 13, N. Y.
Merix Chemical Co., 1021 E. 55th St., Chicago 15, Ill.
Merrill Lab., 164 Turner St., Auburn, Maine
Meyer-Opticraft, Inc., 39 W. 60th St., New York 23, N. Y.
William Meyerowitz, 1205 Findlay Ave., Bronx 56, N. Y., Apt. 21-B
Michigan Photo Shutter Co., Kalamazoo, Mich.
Micro Record Corp., 225 W. 28th St., New York 1, N. Y.
Midg-O Co., 8863 Avis St., Detroit 9, Mich.
Midtown Optical & Camera Service Co., 101 W. 47th St., New York 19, N. Y.
E. E. Miles Co., So. Lancaster, Mass.
Miles Kedex Co., Leominster, Mass.
Miles Reproducer Co., Inc., 812 Broadway, New York 3, N. Y.
Miller Outcault Co., 1050 N. Lillianway, Hollywood 38, Calif.
Miller-Trojan Co., 1083 W. Main St., Troy, Ohio.
Mills Photographic Engineering Labs., 1857 N. Western Ave., Hollywood 27, Calif.
Mimosa American Corp., 207 E. 84th St., New York 28, N. Y.
Minifilm Camera Corp., 1193 6th Ave., New York 19, N. Y.
Minneapolis-Honeywell Regulator Co., Brown Inst. Div., Wayne & Roberts Aves., Philadelphia 44, Penn.
Minnesota Mining & Manufacturing Co., 900 Fauquier Ave., St. Paul 6, Minn.
Minox, Inc., 140 E. 30 St., New York 16, N. Y.
Minute Man Photo Products Corp., 309 E. 22nd St., New York, N. Y.
Mirro-Mount Co., 310 W. 99th St., New York 25, N. Y.
Mitchell Camera Corp., 666 W. Harvard St., Glendale 4, Calif.
Mitropa Corp., 50 Broadway, New York 4, N. Y.
Mogull's, 112 W. 48th St., New York 19, N. Y.
Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 38, Calif.
Molers Camera Clinic, 149½ N. Broadway, Wichita, Kans.
Mon-Blanc Chemical Laboratory, 1017 Crescent Ave., Ft. Wayne 3, Ind.
Monson Corp., 919 N. Michigan, Chicago 11, Ill.
Moos Manufacturing Co., 929 S. Rosemead Blvd., El Monte, Calif.
Morgan Camera Shop., 6262 Sunset Blvd., Hollywood 28, Calif.
Franklin M. Morgan, 303 W. 42nd St., New York 18, N. Y.
Frank W. Morse Co., 1300 Soldiers Field Road., Boston 35, Mass.
Morse Instrument Co., 21 Clinton St., Hudson, Ohio.
The Morton Co., 86 S. 6th St., Minneapolis 2, Minn.
Movie-Mite Corp., 1116 Truman Rd., Kansas City 6, Mo.
Moviecraft Co., 1623 Unionport Rd., New York 60, N. Y.
Moviette, Inc., 366 Madison Ave., New York 17, N. Y.
Movievox Co., 1113 Pleasanton Rd., San Antonio 4, Texas
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George Murphy, Inc., 57 E. 9th St., New York 2, N. Y.
Mycro Camera Co., Inc., 4 E. 43 St., New York 17, N. Y.

N

National Carbon Co., a div. of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
National Card, Mat & Board Co., 11422 S. Broadway, Los Angeles 61, Calif.
National Chemical Co., 1516 Industrial St., Los Angeles 21, Calif.
National Cine Equipment, Inc., 20 W. 22nd St., New York 10, N. Y.
National Cinema Serv., 71 Dey St., New York 7, N. Y.
National Photocolor Corp., 305 E. 43rd St., New York 17, N. Y.
National Photo & Lantern Slide Color Co., 111 Main St., Port Washington, L. I., N. Y.
National Pictureslides, Inc., 134 W. 32nd St., New York 1, N. Y.
National Sheet Metal Co., P. O. Box 344, Ridgewood, N. J.
National Shipping Supply Co., 908 Broadway, Kansas City, Mo.
Nega-File Co., 41 N. Delaware Dr., Easton, Pa.
Neumade Products Corp., 330 W. 42nd St., New York 18, N. Y.
Newmatic Corp., West Hartford, Conn.
Nichols Photo Service, 325 Mill St., Bristol, Pa.
Nickerson, 33 Rogers Ave., Lynn, Mass.
Nikon Camera Co., Inc., 25 California St., San Francisco 11, Calif.
N. C. Nitsche, P. O. Box 6032, Mid City Station, Washington 5, D. C.
Nobema Products Corp., 141 Greene St., New York N. Y.

No Dark Products Co., 6238 Alcove Ave., North Hollywood, Calif.
Nord Co., 254 1st Ave., N. Minneapolis 1, Minn.
Nordic Mfg. Co., 1 E. 22nd St., Minneapolis, Minn.
Norman-Willets Co., 316 W. Washington St., Chicago 6, Ill.
North American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo.
Northwest Camera Repair Co., 209 Loeb Arcade, Dept. NP, Minneapolis 2, Minn.
Nuclear Products Co., 2150 Newport Blvd., Costa Mesa, Calif.
NuTone, Inc., Cincinnati 27, Ohio
Nu-Way Company, 1913 Sylvania Ave., Toledo, Ohio

O

Ocean Photo Supply Co., 11 W. 20th St., New York 11, N. Y.
Ohaus Scale Corp., 1050 Commerce Ave., Union, N. J.
Ohio Thermometer Co., 33 Walnut St., Springfield 99, Ohio
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Otto Engineering Co., 721 Augusta St., Inglewood, Calif.
S. E. Overton Co., South Haven, Mich.

P

Pacific Universal Products Corp., 188 N. Vista Ave., Pasadena 8, Calif.
Pagliuso Engineering Co., 113 W. Harvard St., Glendale 4, Calif.
Paillard Products, Inc., 265 Madison Ave., New York 16, N. Y.
Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
Panogear Industries, 4119 Beverly Blvd., Los Angeles 4, Calif.
Par Products Corp., 926 N. Citrus Ave., Hollywood 38, Calif.
The Ben Parker Co., 18639 Ventura Blvd., Tarzana, Calif.
Pelouze Manufacturing Co., 1218 Chicago Ave., Evanston, Ill.
Penberthy Instrument Co., 666 Adams St., Seattle 8, Wash.
Penfield Mfg. Co., Inc., 19 High School Ave., Meriden, Conn.
Pentron Corp., 221 E. Cullerton, Chicago 16, Ill.
Perfection Sample Case Co., 406 S. Wells St., Chicago 7, Ill.
J. B. Perrin & Co., 8510 Warner Dr., Culver City, Calif.
Petrick Brothers, Inc., 1938 N. Springfield Ave., Chicago 47, Ill.
Pho-Tak Corp., 15-21 N. Loomis St., Chicago 7, Ill.
Photax, Inc., P.O. Box 103, Malden, Mass.
Photo Equipment Co., 4001 Garfield Ave., So., Minneapolis 8, Minn.
Photo-Mart, 385 E. 194th St., New York 58, N. Y.
Photo Materials Co., 334 N. Bell Ave., Chicago 12, Ill.
Photo Reproducing Equipment Co., 15 Summit Ave., Chatham, N. J.
Photo Research Corp., 127 W. Alameda Ave., Burbank, Calif.
Photo Specialty Co., 1439 Ocean Ave., Brooklyn 30, N. Y.
The Photogenic Machine Co., 21 Olive St., Youngstown 1, Ohio
Photographic Importing & Distributing Corp., 20 Broad St., New York 5, N. Y.
Photographic Equipment Corp. of America, 2822½ W. Pico Blvd., Los Angeles, Calif.
Photographic Industries, 223 W. Erie St., Chicago 10, Ill.
Photographic Products, Inc., 6916 Romaine St., Hollywood 38, Calif.
PhotoLix, Inc., 64 W. Park Ave., Long Beach, N. Y.
Pictar, 2212 E. 12th St., Davenport, Iowa.
Pictorial Frames, 615 Jersey St., Quincy, Ill.
Pierce Camera Rebuilding Lab., Quebec, P. Q., Canada.
The Pierce Co., 3705 Nicollet Ave., Minneapolis 9, Minn.
Pinnacle Product'ons, 24 E. 8th St., Chicago 5, Ill.
Pioneer Patents & Products Co., 3720 N. New England Ave., Chicago 34, Ill.
Pioneer Scientific Corp., 161 Great Neck Rd., Great Neck, L. I., N. Y.
Pipkin-Castle Photo Service, 312½ W. Second, Oklahoma City, Okla.
Plastro, Inc., Box 111, Gardner, Mass.
Ply-Line Co., 1180 E. New York Ave., Brooklyn 12, N. Y.
Polaroid Corp., 730 Main St., Cambridge 39, Mass.
Polly Products, Inc., 148 LaFayette St., New York 13, N. Y.
Ponder & Best, Inc., 814 Cole Ave., Hollywood 38, Calif.
Porter Mfg. Co., 2836 Sunset Blvd., Los Angeles 26, Calif.
Powell Products, Inc., 1531 Devon Ave., Chicago, Ill.
Praco Photo Prod., Inc., 2288 Amsterdam Ave., New York 13, N. Y.
Precision Electronic Products Co., 3412 N. Rutherford Ave., Chicago, Ill.
Premier Manufacturing Co., 80 Boylston St., Boston 10, Mass.
Presto Camera Repair, 130 Ferguson Rd., Dallas 10, Tex.

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35mm to 5x7 ENLARGER
ELWOOD S-2
with 6½" f6.3 lens
Brand-new, only 69.50
Shipping weight 65 lbs.

35mm to 2¼x3¼ ENLARGER
FAMOUS-MAKE
Complete with enlarging lens
Brand-new, only 21.95
Shipping weight 18 lbs.

FLOOD & PROJECTION LAMPS

Light equals 1700 watts 4800 Kel. List $11.50. 10 for 6.95

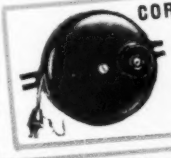
Med pre-foc.	burn	base down
500 watt T-10	2 for	5.90
750 watt T-12	2 for	5.90
1000 watt T-12	2 for	6.90

TRIPOD SCREENS

Glass-beaded tripod screen in hammer-tone roll-away case. 7.95
30 x 40 ..... 9.50
40 x 40 ..... 11.50
37 x 50 .....
Add 90c for Postage
100 watt SLIDE PROJECTOR 7.49
Add 50c for shpg.

PRESS SOLENOID

King Sol Solenoid—for all press type shutters. Precise sync up to 1/500th—low amps requirements. List price $15.00—
BRAND-NEW 5.95
Three for 16.50
Add 20c each shipping costs

CORDOMATIC REEL

Automatic electric cord rewind. Permits 18' of wire to roll compactly in case. Tension stops. Mounting bracket. List $18.00. Complete with 18' cord. 5.95
Brand-new
Add 50c shipping costs

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Leather, jumbo size for all cameras up to 4x5 press. Full 11x15 x 15" size. Zippered enclosures, wide brass locks, shoulder strap. List price $37.50. 19.85
Brand-New
Add 50c for shipping
Same for 2¼x3¼ cameras 8.95

2" f3.5 EKTAR LENS

Enlarging lens in barrel. Sharp cutting fast lens. Comes with flanges for mounting on any lens board and for use with any enlarger. Verified value over $30.00. 12.95
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PAPER SPECIALS
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7x9 Azo, SW, glossy, #3.....gross 1.95
10x10 Chloride, SW, SM, (type IX) #2, 3 & 4.....gross 1.69
10x10 Chloride, LW, SM, #1, 2, 3 & 4 .....gross .98
3 gross $2.69, 22 gross 16.50
20x24 Contact, SW, SM, (type IX) #1 & 4.....½ gross 3.75
10x10 Defender, DW, SM, #2 '49 date .....250 sheets 5.89
6⅞x250' Aero-Contact SW, #1, 2, 3 & 4.....roll 2.95

ENLARGING PAPER
7x8⅝ Velour, SW, glossy, #1 '49 date .....100 sheets 1.50
14x17 Velour Black, SW, glossy #1 & 2 '49 date.....250 sheets 17.85
20x24 Velour Black, SW, SM, #3 '49 date .....250 sheets 26.95
20x24 Kodak, DW, SM, #3 ½ gross 8.95

AEROBROMIDE PAPER
Eastman Kodak 9⅝"x200' in hermetically sealed cans. Cut as many as 240 8x10's from one roll. Full rich tone—long gradation—dries semi-matte or glossy. Resisto type base. Grades #1, 2 and 3 per roll 2.95
3 rolls assorted grades 8.50
12 rolls one grade (case) 33.00
Shipping weight 9 lbs. per roll

20x24 Bromide, SW, gl. 1..50 sheets 7.95
20x24 Kodak, SW, Gl., #2..½ gross 8.95
7"x125' AERO ENLARGING, SW, SM, #1, 2 & 3....roll 1.89
4¼"x825' AERO BROMIDE, LW, SM, A5.....14 rolls 5.00

FILM SPECIALS
35mm x 100' Ansco Supreme ....roll 1.20
35mm x 100' Finopan .....roll 1.50
35mm x 200' DuPont Superior #3, 100 ASA.....5 rolls 5.95

4x5 PAN FILM
We've sold thousands of boxes of this film—which shows people recognize a good bargain. Rates ASA 100, medium grain, full-color value. Short-dated and guaranteed to give satisfaction. 1.65
2 doz. 4x5 Geveart Pan Film ...
6 doz. 4x5 Geveart Pan Film 4.35
Add 15c postage each 2 doz.

35mm x 200' Ansco Supreme ....roll 2.25
35mm x 400' Ultra Speed .....roll 3.75
620 Ansco Supreme...12 rolls 2.95
Price includes Kodak processing.
16mm x 100' Super X or Super XX.roll 3.95
16mm x 50' Mag., Super X, XX..each 2.95
16mm x 50' Mag., Kodchrme, Day.ea. 4.95
Price does not include processing.
16mm x 100' Kodak Airgraph.20 rolls 12.00
16mm x 50' Mag., Plus X, XX Neg... 1.25
3¼x4¼ Triple S Ortho.....2 dozen 1.39
4x5 Triple S Ortho.....2 dozen 1.65
4x5 Verichrome film pack.....each 1.50

Prices F.O.B. N. Y.—C.O.D.'s with 25%. Minimum Order 2.50.
AMERICA'S PHOTOGRAPHIC BARGAIN CENTER
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Dept. AP-5 555 E. Tremont Ave., New York 57, N. Y.
Phone: CYpress 9-6400

Price Ind. Corp., 18 E. 41st St., New York 17, N. Y.
Prime Photo Products, Inc., 4445 Morella Ave., North Hollywood, Calif.
Printex Products, 801 S. Myrtle, Monrovia, Calif.
Projection Optics Co., Inc., 330 Lyell St., Rochester 6, N. Y.
Provident Camera Shop, 720 Vine St., Cincinnati 2, Ohio.
Prufcoat Laboratories, Inc., 65 Main St., Cambridge, Mass.

Q

Quick-Set, Inc., 1308 N. Elston Ave., Chicago 22, Ill.

R

R. & M. Products Development Co., 9946 Holmur Ave., Detroit 4, Mich.
RJ Camera Laboratories, 2980 W. Pico, Los Angeles, Calif.
Radex Stereo Co., 179-181 N. Vista St., Los Angeles 36, Calif.
Radiant Lamp Corp., 300 Jelliff Ave., Newark 8, N. J.
Radiant Manufacturing Corp., 1209 S. Talman, Chicago 8, Ill.
Radiant Specialty Corp., 1209 S. Talman Ave., Chicago 8, Ill.
Radio Corp. of America, RCA Victor Div., Camden 2, N. J.
Russ Ramsey, Box 2094, Mojave, Calif.
Random Corp., 415 Lexington Ave., New York 17, N. Y.
Raygram Corp., 145 E. 32nd St., New York 16, N. Y.
Ray-O-Vac Co., 212 E. Washington Ave., Madison 10, Wis.
Raytheon Manufacturing Co., 138 River St., Waltham 54, Mass.
Read Photo Products, 1619 Glendale Blvd., Los Angeles 26, Calif.
Reelane Co., 43-40 34th St., Long Island City 1, N. Y.
Reger Mfg. Corp., 308 North Ave., Mt. Clemens, Mich.
Relham Products Co., 18 Van Ness Pl., Newark 8, N. J.
Retouch Methods Co., Chatham, N. J.
Revere Camera Co., 320 E. 21st St., Chicago 16, Ill.
Arthur H. Reynolds, 36 Hillside Ave., Swampscott, Mass.
M. H. Rhodes, Inc., 30 Bartholomew Ave., Hartford 6, Conn.
Richard Manufacturing Co., 1502 E. Colorado Blvd., Glendale 5, Calif.
Oskar Richter, 290 Rawlinson Rd., Rochester 5, N. Y.
Robar Photo Equipment Co., Wallace, Mich.
Robbins Ethol Corp., 19 W. South Temple, Salt Lake City, Utah
Roberts Photo Workshop, Netcong, N. J.
Joseph Robin Co., 262 W. 22nd St., New York 11, N. Y.
Rodgers Bellows Mfg. Co., Box 1254, Waterbury, Conn.
Roehrig-Bielenberg, Inc., 39 Henry St., Brooklyn 2, N. Y.
Rosco Laboratories, 267 Hudson Ave., Brooklyn 1, N. Y.
A. Rosmarin, 1413 E. 14th St., Brooklyn 30, N. Y.
Ruko Co., 3 W. 18th St., New York 11, N. Y.
Rush Photo Guide, 104 S. State St., Syracuse 2, N. Y.

S

S.O.S. Cinema Supply Co., 602 W. 52nd St., New York 19, N. Y.
C. L. Santos Manufacturing Co., 64 W. Randolph St., Chicago, Ill.
J. G. Saltzman, Inc., 480 Lexington Ave., New York 17, N. Y.
Sanford Ink Co., Bellwood, Illinois
James F. Saragino, 201 E. 48th St., New York 17, N. Y.
Sarnol, Inc., 96 Warren St., New York 7, N. Y.
The Saunders Co., 625 S. Goodman St., Rochester 20, N. Y.
Edmund Salvage Co., 101 E. Gloucester Pike, Barrington, N. J.
Savage-Universal Corp., 480 Lexington Ave., New York 17, N. Y.
Sawyer's, Inc., Box 490, Portland 7, Ore.
Schaeffer Co., Inc., 89 Halsey St., Newark 2, N. J.
Scienta Products Co., Box 1930, Chicago 90, Ill.
Seal, Inc., 8 Broad St., Shelton, Conn.
Sears, Roebuck & Co., 925 S. Homan Ave., Chicago, Ill.
Seminar Electric Products, Inc., 334 Rantoul St., Beverly, Mass.
Semon Bache & Co., Greenwich & Morton Sts., New York 14, N. Y.
Service Manufacturing Co., 120 E. 16th St., New York 3, N. Y.
Service Photo Suppliers, Inc., 151 W. 19th St., New York 11, N. Y.
Service Photo Suppliers, Inc., 5 E. 3rd St., Cincinnati 2, Ohio
Sharman Camera Works, 251 Post St., San Francisco 8, Calif.
Shaw Electronic Corp., 92 S. Central Ave., Hartsdale, N. Y.
Sheldon Electric Corp., 76 Coit St., Irvington 11, N. J.
Shull-Meyer Co., 8681 Melrose Ave., Hollywood 46, Calif.
Shureflash Lab., Inc., 537 E. Third St., Newport, Ky.
R. A. Simerl Manufacturing Co., 1 Liberty St., Madison, Connecticut
Simmon Brothers, 30-28 Starr Ave., Long Island City 1, N. Y.
Jay S. Simms, P. O. Box 455, Monterey, Calif.
C. R. Skinner Manufacturing Co., 294 Turk St., San Francisco 2, Calif.
Slip-On, Inc., 401 Broadway, New York 13, N. Y.
Slyd-Rul Co., Canaan, N. Y.
Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
Smeaton Co., 1837 N. 59th St., Milwaukee 8, Wis.
Jas. H. Smith & Sons Corp., Lake & Colfax Sts., Griffith, Ind.
W. K. Smithson Co., 2901 Knox Ave., Los Angeles, Calif.
W. Sobel Mfg. Co., 2120 Jerome Ave., New York 53, N. Y.
Society for Visual Education, Inc., 1345 W. Diversey Pkwy., Chicago 14, Ill.
Solar Cine Products, Inc., 4247 S. Kedzie Ave., Chicago 32, Ill.
Solar Electric Corp., 121 Central Ave., Warren, Pa.
Sorenson & Co., Inc., 375 Fairfield Ave., Stamford, Conn.
Spear Products Co., 812 Huron Rd., Cleveland 15, Ohio.
Spencer Co., 71 W. Lake St., Chicago 6, Ill.
Spindler & Sauppe, 2201 Beverly Blvd., Los Angeles 4, Calif.
Spiratone, 32-34 Steinway St., Long Island City 3, N. Y.
Sprague Products Co., North Adams, Mass.
Sprague-Hathaway, Inc., 58 Day St., W. Summerville 44, Mass.
Starr Corp., 49 W. 19th St., New York 11, N. Y.
States Smelting & Refining Co., 615 Victory St., Lima, Ohio.
Stationers Specialty Co., 19 W. 21st St., New York 10, N. Y.
Ted Staudte, P. O. Box 55, New York 24, N. Y.
Stein Photo Distributors, 307 W. 4th St., Santa Ana, Calif.
Sterling-Howard, 561 E. Tremont Ave., New York 57, N. Y.
Stern & Co., 1122 Grand Ave., Kansas City 6, Mo.
Roy C. Stewart & Sons, 235 Via Linda Vista, Redondo Beach, Calif.
Stewart Research Labs., Forest Gate at Franconia, Alexandria, Va.
N. A. Standard Products, 1564 Unionport Rd., Bronx 62, N. Y.
The Still-Man Co., 429-33 E. 164th St., Bronx 56, N. Y.
Strip-Slide Projector Co., 3726 W. Montrose Ave., Chicago 18, Ill.
Strobo Research Laboratories, 4351 N. 35th St., Milwaukee 16, Wis.
Jos. Struhl Co., 867 Broadway, New York 3, N. Y.
Studer Photo Co., San Antonio 6, Texas.
Sturr Optical Co., Inc., Union Valley Rd., RFD 1, Newfoundland, N. J.
Sun Ray Photo Co., Inc., 295 LaFayette St., New York 12, N. Y.
Superior Bulk Film Co., 538 S. Dearborn, Chicago 6, Ill.
Superior Leather Shop, 588 Monroe St., Buffalo 11, N. Y.
Superior Specialty Co., Inc., 519 Hartung Pl., N. E., Canton 4, Ohio.
Super-Tomic Products Co., 6411 Hollywood Blvd., Hollywood 28, Calif.
Sutz Products, 528 S. Dearborn, Chicago 5, Ill.
E. Suydam & Co., Inc., 2080 Lincoln Ave., Pasadena 3, Calif.
Sylvania Electric Products, 1740 Broadway, New York 19, N. Y.

T

Tec Engineering Co., 11777 Mississippi Ave., West Los Angeles 25, Calif.
Technical Oil Tool Corp., Ltd., 1057 N. LaBrea Ave., Hollywood, Calif.
Techni-Service Co., 146 E. 44th St., New York 17, N. Y.
Technics Co., 103 W. 4th St., Plainfield, N. J.
N. Teitelbaum Sons, 261 Grand Concourse, New York 51, N. Y.
Teloptic Instrument & Mfg. Co., Inc., 134 W. 32nd St., New York 1, N. Y.
The Tenplus Co., 407½ Water St., Warren, Pa.
Testrite Instrument Co., 57 E. 11th St., New York 3, N. Y.
Theodos Mfg. Co., Box 251, Santa Monica, Calif.
Three Dimension Co., Inc., 4555 W. Addison St., Chicago 41, Ill.
Tiffen Manufacturing Corp., 617 Sackett St., Brooklyn 17, N. Y.
Title-Craft, 1022 Argyle St., Chicago 40, Ill.
Title Slides, 1440 Broadway, New York 18, N. Y.
A. E. Tomkin & Co., 1828 Columbia Rd., N.W., Washington 9, D. C.
Transmirra Products Corp., 1650 Broadway, New York 19, N. Y.
Trautwein & Magnus Camera Repair Shop, 42 John St., New York 7, N. Y.
Tru-Vue Co., P. O. Box 308, Beaverton, Ore.
Turner Associates, 180 Flower City Pk., Rochester 13, N. Y.

U

The UDA Co., 1909 S. Kingshighway, St. Louis 10, Mo.
Hans Unfried Photo Supplies, 3104 Main St., Buffalo 14, N. Y.
Union Rubber & Asbestos Co., 232 Allen St., Trenton 6, N. J.
United Camera Co., 1615 Belmont Ave., Chicago, Ill.
Universal Camera Corp., 28 W. 23rd St., New York 10, N. Y.
Universal Yonkers Corp., 131 Alexander St., Yonkers 2, N. Y.
Urell, Inc., 2630 Humboldt St., Los Angeles 31, Calif.
U. S. Photographic Equipment Corp., 442 Rogers Ave., Brooklyn 25, N. Y.
U. S. Stoneware Co., 60 E. 42 St., New York 17, N. Y.

V

V & E Mfg. Co., P. O. Box 950M, Pasadena 20, Calif.
Van Liew-Sonn Co., 110 E. 23rd St., New York 10, N. Y.
Varigraph Co., Inc., 117 W. Lakeside St., Madison 1, Wis.
Victor Animatograph Corp., Davenport Bank Bldg., Davenport, Iowa
Vidmar Camera Co., Inc., 27-12-Ditmars Blvd., Long Island City 5, N. Y.
Viewlex, Inc., 35-01 Queens Blvd., L. I. City 1, N. Y.
Vocalite Screen Corp., 19 Debevoise Ave., Roosevelt, N. Y.
Voss Photo Prods., Inc., 1143 1st Ave., New York, N. Y.

W

W. K. Manufacturing Co., 325 W. Vine St., Milwaukee 12, Wis.
Walser Automatic Timer Corp., 420 Lexington Ave., New York 17, N. Y.
S. Walters, 412 W. 6 St., Rm. 901, Los Angeles 14, Calif.
F. P. Walther, Jr. & Assoc., 755 Boylston St., Boston 16, Mass.
Warren Mechanisms, 3310 34th Ave., L. I. C. 1, N. Y.
Watrous & Co., Inc., 110 E. 23rd St., New York 10, N. Y.
F. Weber Co., 1220 Buttonwood St., Phila. 23, Pa.
Webster Brothers Laboratory, 53 W. Jackson Blvd., Chicago 4, Ill.
Webster-Chicago Corp., 5610 W. Bloomingdale, Chicago 39, Ill.
Webster Electric Co., Racine 1, Wis.
Weimet Co., 514 W. 57th St., New York 19, N. Y.
W. M. Welch Mfg. Co., 1515 Sedgwick, Chicago 10, Ill.
Wenzel Distributors, 2511 S. State St., Chicago 16, Ill.
Westerlind Products, 1000 E. Walnut St., Pasadena 4, Calif.
Western Photographic Manufacturing Co., 418 W. 29th Ave., Spokane 9, Wash.
Western Sales Co., 102 Franklin St., New York 13, N. Y.
Western Stamping, Inc., 6219 S. Western Ave., Los Angeles 47, Calif.
Westinghouse Electric Corp., Lamp Division, Bloomfield, N. J.
Weston Electrical Instrument Corp., Photographic Sales Div., 614 Frelinghuysen Ave., Newark 5, N. J.
David White Sales Co., 315 W. Court St., Milwaukee, Wis.
Wilco Specialties, 3605 Herman, Louisville 12, Ky.
Wilcox Photo Prod., Inc., 7268 Beverly Blvd., Los Angeles 36, Calif.
H. K. Williams Co., 2332 18th Ave. A, Moline, Ill.
W. I. Willin & Co., 102 S. Stoneman Ave., Alhambra, Calif.
Willman Camera Service, 3222 N. 21st Pl., Phoenix, Ariz.
Willoughby's, Inc., 110 W. 32nd St., New York 1, N. Y.
Wil-Mar Co., P. O. Box 1, Natick, Mass.
Wilmot Sales Corp., 151 W. 28th St., New York 1, N. Y.
Wil-Sel Products Co., 2417 W. Hubbard St., Chicago 12, Ill.
Wilson & Garlock, 851 N. Ogden Dr., Los Angeles 46, Calif.
Wilson Jones Co., 3300 Franklin Blvd., Chicago 24, Ill.
Windman Brothers, 3325 Union Pacific Ave., Los Angeles 23, Calif.
Wolff & Dolan, 5550 California St., San Francisco 21, Calif.
Wolk Mfg. Co., 3745 N. Clark St., Chicago, Ill.
Wollensak Optical Co., 850 Hudson Ave., Rochester, N. Y.
Workrite Products Co., 808 W. Doran St., Glendale 3, Calif.

Y

Yardney Electric Corp., 105 Chambers St., New York 7, N. Y.
Joseph Yolo, 5968 Santa Monica Blvd., Hollywood, Calif.
York Photo Mount, Inc., 140 W. 22nd St., New York 11, N. Y.

Z

Carl Zeiss, Inc., 485 5th Ave., New York 17, N. Y.
Zephyr Products, Inc., 527 Delaware, Kansas City 6, Mo.
The Zoomar Corp., 381 4th Ave., New York 16, N. Y.

ALL INQUIRIES

on products listed in the Directory should be addressed to the manufacturers and distributors concerned. Their addresses listed above, start on page 218.

We Look Back On a Great Era

(Continued from page 41)

activity and enjoyment in a field too long neglected.

Our first issue looks a bit old fashioned in many respects when compared with the sleek, streamlined PHOTOGRAPHY of 1952, but it's surprising to see how many of the features and departments launched in 1937 have proved so successful that they are still with us in one form or another. Volume 1, Number 1 inaugurated a *Candid Shots by the Editor* editorial page, *Camera Club Notes*, and news of new products—all going strong today. It also included a page of print criticism of readers' pictures, since become *Pictures from Our Readers* (without the criticism), and a *New Tricks for Camera Owners to Try* department, now simply *Photo Tips*.

The big articles covered just about every angle of photography, giving their topics a down-to-earth twist that made them interesting to the average guy with a camera. Leading off with *Exciting Experiences of a Newspaper Photographer*, the contents included *How to Pose Your Subject; Taking Pictures without a Camera* (on photograms); *Shooting the Burlesque from the Center of Baldheaded Row; How to Take Better Pictures* (on composition); *Make Your Camera Pay Profits* (still a favorite subject); *Simple Makeup for the Amateur; Candid Shots in a Fish Tank; Reaching Out with the Miniature* (on telephoto lenses); an exposure chart; and articles on *Common Errors in Home Movies, How to Take Care Pictures, An Ideal File for Negatives, Building a Portable Enlarger, Catching Crooks with a Camera*, and *Microphotography for the Amateur*. After assimilating all this information the reader could turn next to *Fast Action with a Miniature* (sports photography), *My Experiences as a Model*, a personality sketch of *Don English, Hollywood's Ace Still Man*, and *Mapping with an Aerial Camera*. Scattered among the longer pieces were short items in a how-to-do-it vein or describing a novel use of photography. All in all, an amazingly comprehensive roundup!

Stanley Young of Chicago provided an interesting story about the one-shot color camera he used to make the May cover illustration—a close-up of a girl still wet from a shower bath and draped in a blue towel. The article was illustrated with a photograph and diagrammatic sketch of the camera to show its working parts, plus five candid shots of how the picture was taken—a feature that since has been imitated often in other camera magazines.

From the start, the editors of POPULAR PHOTOGRAPHY (who later were to sponsor one of the most sensational prize contests in magazine history) realized the value of offering good pay for outstanding pictures from readers. The first issue ran a *Picture of the Month* feature and announced it would pay $25 for one "outstanding pictorial print each month" whether it was made by an amateur or a pro.

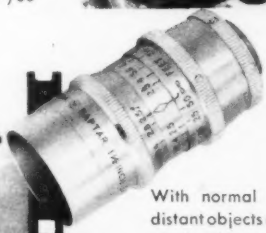
The first selection was Don Wallace's

Get ALL the story in your pictures

Use WOLLENSAK Accessory Lenses

Normal focus lenses can't cover the whole picture when taken up close.

Cine Raptar Wide Angle Lenses let you get the complete picture in confined spaces . . . give you better composition in movie making.



With normal focus lens distant objects are smaller . . . harder to see.

Cine Raptar Telephoto Lenses bring distant objects up close . . . make the image larger, more interesting to view . . . give you better continuity.

WHAT DO YOU WANT IN A LENS?

- √ High image contrast, brilliance
- √ High resolution
- √ Sharp, clean, corner-to-corner definition
- √ High speed
- √ Life-time construction
- √ Coated elements
- √ Performance unconditionally guaranteed

THEN YOU'LL WANT *Wollensak* CINE RAPTARS

A LEADER IN PHOTOGRAPHY WHEREVER PICTURES ARE TAKEN • CINE • STILL • HIGH SPEED • Wollensak

. . . the choice of over 37 of the world's leading camera and enlarger manufacturers . . . studio, press and professional photographers. See your Photo Dealer or write for new folder "What You Should Know About Wollensak Lenses."

WOLLENSAK OPTICAL COMPANY
790 Hudson Avenue, Rochester 21, N. Y.

Your Pictures Look Twice as Good

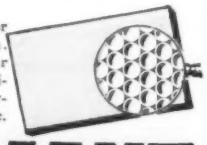
AND RADIANT SCREENS ARE GOOD SCREENS

Radiant's "Million Mirror" screen surface makes all pictures more brilliant, sharper—twice as bright! Millions of tiny mirrors *reflect* projected light powerfully instead of absorbing it. As a result, your pictures fairly leap from the screen with startling realism, added brilliance, new clarity and depth.

There's a Radiant Screen for *every* need, from 30 inches to 30 feet. Ask your dealer today!

Send for FREE Sample

Ask your dealer for demonstration. Send coupon for *free sample* of Radiant "Million Mirror" screen fabric.



RADIANT
Projection Screens

Radiant Mfg. Corp., 1239 S. Talman, Chicago 8, Ill.

Send me free sample of Radiant "Million Mirror" Fabric—and brochure on Radiant line.

Name _____

Address _____

City _____ Zone _____ State _____

(My dealer's name is _____

_____)

Faith, a portrait of a woman, which led off an eight-page picture section printed on extra-heavy paper for quality reproduction. Also getting the glamour treatment on these special pages were a still life by Tesla Wineman Barker; *A Prize Nude* by Lionel Heymann; the famous *Pearl Study* montage by Harry K. Shigeta (reproduced with this article); a pair of pictures illustrating the current catch-phrases *The Cat's Whiskers* and *The Pig's Knuckles* (the first by Fred Korth, the second by Harold Burdekin); sultry pictures of Carol Lombard by Hollywo[illegible] illiam Walling; and Jack Hazlehurst [illegible] o-page spread with 10 pictures of Linda Yale. This last feature was a kind of photographic satire showing Miss Yale as Steichen, Man Ray, Mortensen, and others might have recorded her.

POPULAR PHOTOGRAPHY, the first issue showed, aimed at completeness and universal appeal. It was to be a magazine for everybody who used a camera, whether for kicks or to make a living; whether a beginner or an expert. This guiding philosophy was well summed up by the editor in his introduction to the magazine. He said: "POPULAR PHOTOGRAPHY is a magazine for professionals and amateurs alike. Both groups will read it, both groups will write it."

For PHOTOGRAPHY—*the Magazine of Popular Photography*, this statement holds as true today as it did fifteen years ago.—▶

Volume One, Number One

(*Continued from page* 41)

one of the truly great contemporaries. His name is W. Eugene Smith.

While scouting for new talent the magazine did not neglect the top-flight photographers of the time. Among the big names featured frequently on its pages were Edward Steichen, Alfred Eisenstaedt, Margaret Bourke-White, Anton Bruehl, Cecil Beaton, William Mortensen, George Hurrell, and many another photographic giant. Photography as an art and a means of communication was passing through a metamorphosis; POPULAR PHOTOGRAPHY both mirrored, and in some measure, stimulated the change.

Until the mid-thirties American journalists thought in terms of words rather than pictures. But with the birth of *Life* just six months before POPULAR PHOTOGRAPHY's first issue, and *Look* in February of 1937, the picture magazine came into its own. Before long, many newspapers and magazines became more and more photography-minded, experimented with better ways of reporting the news through pictures, used photographs as never before. A new term was coined to fit this new kind of reporting—photo-journalism. And hard-headed editors began to concede that a man with a camera could be as valuable as one with a typewriter. The photographers themselves began to organize on a national scale: those years saw the growth of such influential groups as the National Press Photographers Association and the American Society of Magazine Photographers.

Not only in journalism was photography winning a greater measure of recognition. Some forward-looking museums and educational institutions began to build permanent collections of photographs and exhibit them on an equal footing with paintings. In 1940 New York's Museum of Modern Art founded a department of photography which made brilliant progress under the guidance of such people as Nancy and Beaumont Newhall, and Willard D. Morgan. When the museum opened a separate photography center in 1943 under the directorship of Morgan, POPULAR PHOTOGRAPHY hailed the event as a major cultural contribution. An even more exciting era began when Edward Steichen was appointed director of photography in 1947. Under Steichen's imaginative leadership there appeared a long series of stimulating—and frequently controversial—exhibits that jolted both photographers and public into new ways of thinking. Today many other museums including Chicago's huge Art Institute run photographic shows that bring the public thronging.

Colleges and universities added photography to their curricula, and dozens of schools sprang up offering full-time courses in photography as a profession. They found no lack of students. The new interest in the wonder-working camera was both deep and wide-spread.

The public's enthusiasm was demonstrated by the success of huge trade shows where the industry displayed its bright new equipment and materials. The National Photo Show in New York, an annual photographic fair first held in 1947, draws enormous crowds each year.

How has all this ferment affected that nebulous character, the Average Camera Fan? Joseph G. Dombroff, a leader in the photographic industry, makes some interesting comments on that score. In the first year of POPULAR PHOTOGRAPHY's existence, he said that photography was growing "by leaps and bounds because nowadays it's a hobby in which everyone can indulge himself—rich or poor, young or old." Interviewed for this issue fifteen years later, he was just as enthusiastic but inclined to feel that the hobby had matured.

"Today's camera store customer is more conversant with the merits of equipment than were his pre-war predecessors," said Dombroff. "He understands the mechanics better and is fairly discriminating in his purchases." Certainly the rise in sales of second-hand equipment indicates a new kind of customer—the photographer who knows values and wants the best but has to go easy on his pocketbook. And today's camera fan is much more style conscious than ever before.

Camera stores themselves have undergone a change. Within 15 years many small outfits have grown to huge proportions and now carry on a world-wide mail-order trade as well as a brisk local business. Modernization programs have put camera shop fronts and interiors on a par with important stores in other fields. To succeed, the dealer has to keep up with new products and developments with the result that nine times out of ten he becomes an expert able to hold his own with most professional photographers. Customers are demanding greater services

—and are accustomed to getting them.

Picture-taking habits, too, have varied during the past 15 years. The miniature camera won tremendous popularity, hit a temporary slump, and now is back in favor again—largely as a color camera, this time. The twin-lens reflex also won a large following both among amateurs and professionals. Flash photography opened exciting new vistas for camera fans, and millions of them adopted the technique. Today you can hardly find a camera in any price range that doesn't offer flash synchronization. Electronic flash units, first adopted by professionals for sport and action photography, have been reduced in bulk and price until they now are well within the reach of many amateurs.

Color was big news in 1937 and the fever is still running high. The use of color film by amateurs snowballed so greatly that today, it is estimated, at least 10 percent of all pictures taken are in color, and fully 90 percent of all movies shot by America's 3 million movie-makers are on color film. From the beginning, POPULAR PHOTOGRAPHY recognized and encouraged this trend by giving as much space as possible to color reproductions. The magazine was one of the first to use a color transparency for its cover, and recently opened its pages to 35-mm and larger color slides from readers. The overwhelming response to this last offer gave clear proof that devotees of color photography are as enthusiastic as they are numerous.

Another significant trend is stereo's amazing rebirth after years of gathering dust in grandma's parlor. Three-dimensional photography promises to open an entirely new field by drawing from groups that are now indifferent to photography. The biggest hitch today is the comparatively high cost of stereo equipment, but it's almost certain that the next few years will see new, lower-cost stereo cameras and three-dimensional projectors offered to a public that is eager to buy.

With all this activity it was only natural that camera fans should want an outlet for their work, a place where they could win recognition and a public audience. POPULAR PHOTOGRAPHY gave them one such opportunity in 1939 when it announced the first of its contests. Prizes for both black-and-white and color photographs added up to $3,700 in cash and merchandise. The winning pictures were reproduced in a giant issue that included eight pages of full color and seventy black-and-white prints. The response?—enthusiastic, so enthusiastic, in fact, that the magazine has repeated the contest every year, except during World War II. To date something like half a million pictures have been submitted for the annual prizes which have run as high as $60,000 for a single contest.

Yes, these have been exciting times—15 years of progress, growth, and vigorous activity. Photography is such a vital field, touching as it does every phase of life, that it holds a never-ending fascination. We of PHOTOGRAPHY are happy to have been part of its greatest era, proud to have worked with the men and women who made such progress possible.—▶

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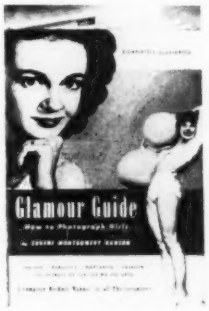
GLAMOUR GUIDE



1 Sooner or later, every male who picks up a camera will look through the view finder and come face to face with a strikingly beautiful girl. Whether the arrangement was by chance or design, the results had better be good. The young lady might have difficulty understanding that the eye of the camera is more searching than the eye of the male.

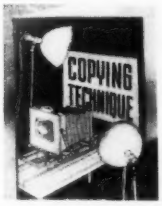
This is the book to be followed for assurance that the print will be good. Pitfalls do exist but the rewards that favor the successful photographer make worthwhile the study of techniques to overcome them. Whether it is the pose to suggest, or the lighting arrangement, or the make-up problems that stymie you an answer will be found on these pages. The text is arranged with no pretense to be a "textbook". It is highly readable discussion by one who has succeeded . . . and whom you can imitate.

By EUGENE M. HANSON $5

American Annual 1952

2 The 66th edition of this famous volume is a departure from the pattern set by any of its predecessors. Editorial content, layout, color, pictures—everything is new except the size of the book which remains the same for the benefit of the thousands of photographers the world over who add each year's edition to their library. The 1952 Annual is both a picture book and a reference book. Article titles are: Paul Strand; Photography of the Figure; Cocktail Party, A 4-page picture feature; Father Hubbard and his Camera; Portraiture with a Single Light; Pictures of the Year; Stereo Pendulum Patterns; Color Photographs—several pages in full color; Use of Space in Pictures; Photomicrography; Using a 16mm Movie Camera for Documentary Reproduction; Who's Who in Photography—an American Annual exclusive.

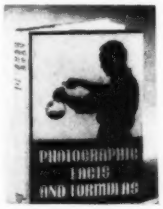
Paper $4—Cloth $5



Copying Technique

3 At some time in his career, every photographer is faced with the problem of copying (making a reproduction of an absolutely flat object) and finds for the first time that an apparently simple task is in reality a tricky one. It is probably this seeming simplicity that was responsible for the dearth of printed information prior to the production of this book. Since its publication, both the professional photographer with a great deal of work and the amateur with only an occasional need have found the directions they had been seeking. The equipment required, the preparation, the special infra-red and other techniques are all taken up with concise thoroughness by experts in the field. The current title, a completely new and up-to-date revision of previous editions.

By GEORGE B. WRIGHT $2



Photographic Facts and Formulas

4 If you had the time and the world's entire collection of photographic information at your disposal, it would take years to compile the information already available to you in this single volume. Photographic Facts and Formulas is the greatest time saver ever introduced to the serious photographer. Every formula that has proved its permanent worth has been entered. The entire field of photography has been canvassed periodically to give the reader a comprehensive survey of the most practical thought and development in photographic technique. Facts are presented in a manner to make them easily understood and available for your practical use. For more than forty years, this has been the number one reference for the darkroom.

By FRANKLIN I. JORDAN $5

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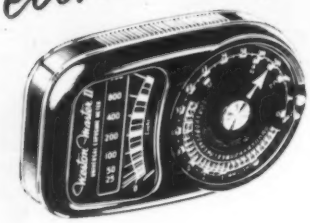

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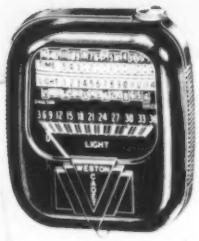

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WESTON *Exposure Meters*

With Infrared It's A Different World

(*Continued from page* 54)

completely unaware of its existence. However, infrared cannot penetrate fog or clouds, which are composed of larger particles; these will record in the picture, but take on added interest by this special treatment.

Infrared seems to transform every mediocre scene into a vista of sparkling beauty, but its magic comes from its haze penetration properties, the heightening of contrast by recording shadows strongly, and the ability to see certain objects in a manner different from the human eye. Yet this fact that the pictures it produces are unnatural has kept a great many photographers from making more use of it. The fact, too, that no instrument is available to measure the amount of infrared rays present in a scene has probably delayed its acceptance. However, anyone can get good results with this film by observing the recommendations of the manufacturer.

To begin with, the invisible infrared rays come to a focus in a plane slightly behind that in which visible light is focused, so a slight amount of bellows extension is recommended. This amount is ever so small—about 1/200 of the focal length when the lens is focused at "infinity." Many modern cameras have a small red dot adjacent to the infinity marking to indicate the slight extension required for infrared. In my own work I rarely make any adjustment in focus, but rather stop the lens down fully to *f*/32 and shoot at about ½ second. With the camera on a tripod, extreme depth of field at this small aperture relieves me of any worry about sharpness.

As to exposure, the settings I use are just about the same as recommended by the manufacturer for distant scenes in bright sunlight with the red (Wratten A) filter. It is well to follow the suggestions as to exposure made on the sheet that comes packed with the film; this will insure good results if they are followed. In the darkroom I develop the Kodak infrared sheet film with D-76 for from 8½ to 9 minutes without inspection. The printing calls for the same techniques as with other types of negatives.

Pictures speak more eloquently than words, so let's consider how the practice of infrared technique works out in the field. When I photographed Mt. Adams from the slopes of Mt. Rainier, I wanted a clear shot of this lovely peak some forty miles away, crowning the Cascades. The deep, forest-covered valleys in the foreground were full of haze, and I knew even as I exposed the shot on pan film with a red filter it wouldn't win any prize or—of more immediate concern to me—be seriously considered by an editor. There are times when I want haze to create a mood, but for cases like this I use infrared film and my red filter. After comparing the two pictures on page 50 I think you'll agree that the infrared shot looks like a different view. The haze, while not entirely dispersed, is so reduced that the peak is sharp and seems much closer. Where no details at all show in the first print, there are ridges and valleys with varying shades in the greens of the second. The conifers remain dark, but stand out almost individually, and the luminous clarity throughout invites the eye to make new discoveries in the picture.

I had a similar problem on an assignment to take views of Seattle. Now editors are always in a hurry, and although it was hazy I had to get my picture. Infrared saved the day. I didn't even submit the picture taken on pan film (page 52). The sky is flat and uninteresting, practically a blank, with Mt. Rainier a mere ghost, sitting uncertainly on a gray film. In infrared the lack of clouds is unnoticed because of the deeper sky tone, and then the mountain rises properly from a base where much of the haze is gone. Sharper shadows make the tall buildings and the rest of the city stand out, while sunlight on the foreground trees renders them white to dress up the picture.

One of infrared's neatest tricks is turning day into night, complete with the feeling of moonlight. The movies make standard use of this feat, and I like to try my hand at it once in a while. Naturally, models should not be used except as foreground silhouettes or with special make-up, for infrared sees right through the skin, recording detail that might interest the medical man but not the pictorialist. In landscapes, however, the black sky, dense shadows, and more white-tinged foliage can be very realistic. Textbooks suggest a clear, sunny day to simulate moonlight, claiming that low-angled light reduces the effect of the infrared and renders the scene more nearly like normal film.

Just to be different, I maintain that the early morning or late afternoon is just the proper times to take daytime moonlight pictures. To prove my point is the picture of Lost Lake. Here I took two shots with the same red filter and identical exposure—½ second at *f*/32—letting the film itself make the entire difference. With panchromatic film Mt. Hood is unsatisfactory as the background—too much in contrast to a dark fringe of trees at its base. But the infrared gives the scene a shot in the arm, clearing the mist, darkening the background sky, and accenting individual trees in the forest. Mt. Hood is a shining presence, and the "moonlight" (really the early morning sunlight) casts sparkling jewels on a dark, velvety surface of water.

In none of my pictures do I work mainly for the unnatural or sensational effect. I merely make use of the one film that will cut haze, build up contrast, or give some rendering which I could not obtain with other material. There is almost no limit to the variety of instance in which infrared can be useful. Horizons are pushed back, tonal qualities varied, and prints relieved of monotony, so that often the photographs seem to record a sparkling new world! For exhibition prints, for your home album, for records of exciting scenic trips, or for sale to editors, try infrared as an invaluable medium that makes it possible for the photographer to improve the effectiveness of a good many of his scenic pictures.—

new books

PHOTOGRAPHY YEARBOOK—1952—edited by Harold Lewis. Published by the Press Centre Ltd., London, England. Distributed in the United States by Rayelle Foreign Trade Service, Philadelphia, Pa. Cloth bound, 7x9½, illustrated, 196 pages, $5.

Here's an interesting British survey of photography during the past year. The annual leads off with a portfolio of industrial portraits by famed Yousuf Karsh, displays the work of young British photographers, presents an international salon, covers electronic flash, texture and form, photography in astronomy, and photo-journalism. A text by an expert in each field precedes the picture sections.

U. S. CAMERA ANNUAL—1952—edited by Tom Maloney. Published by U. S. Camera Publishing Corp., New York, N. Y. Distributed by Duell, Sloan & Pearce, New York, N. Y. Cloth bound, 9x12, illustrated, 400 pages, $6.95.

This 17th edition includes the work of many American and European photographers, news highlights recorded by photo-journalists, a picture story on America's mobilization effort, and a color section showing the 24-hour cycle of the never-setting sun above the arctic circle. Especially noteworthy are 11 pages of pictures from W. Eugene Smith's photographic report on a Spanish village.

THE STEREO REALIST GUIDE by Dr. Kenneth Tydings. Published by Greenberg: Publisher, New York, N. Y. Paper bound, 5x7¾, illustrated, 127 pages, $1.95.

Dr. Tydings' latest guidebook gives step-by-step instruction on how to use the Stereo Realist for better three-dimensional pictures. Other sections cover films, filters, and processing; lighting problems, and different methods of viewing. A photographic and stereo dictionary also is included.

PHOTOGRAPHY FOR THE COMMUNITY NEWSPAPER by Ray Franklin Morgan. Published by the University of Nebraska, Lincoln, Neb. Paper bound, 5¾x8¾, illustrated, 85 pages, $.50.

This practical booklet, by the head of the University of Nebraska's pictorial journalism laboratory, is intended as a guide for photographers on small publications. It gives basic information on use of a camera, flash techniques, developing, printing, and copying, with emphasis on problems likely to be encountered when photographing community news events.

EDUCATORS GUIDE TO FREE FILMS (Eleventh Annual Edition). Published by Educators Progress Service, Randolph, Wis. Paper bound, 8½x10½, 462 pages, $6.00.

EDUCATORS GUIDE TO FREE SLIDEFILMS (Third Annual Edition). Published by Educators Progress Service, Randolph, Wis. Paper bound, 8½x10½, 150 pages, $3.00.

These completely revised editions list 2,121 movie films and 504 slidefilms available free for educational use. Both volumes include brief descriptions of available titles and are cross-indexed by subject matter, source, and title.—

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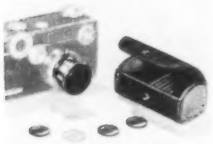

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Watch the Approach!

(*Continued from page* 93)

sure. About one stop underexposure gives the feeling of semi-darkness. Then, as the blinds are opened, the light coming in brings the scene to full illumination. Read your meter when the blinds are open; that's the important part of the scene.

The use of photofloods as the only light source gives the photographer much control in special effects. Photofloods can be set at any height from the floor and at almost any angle to the subjects. One opportunity for arranging an unusual, contrasty scene lighting is found when photographing a children's game of cops-and-robbers. Their chases and shootings gain a realistic flavor when lit in low key.

Secret of good low key effect in movies is to set the main lights to the *side* of the subjects. Expose for the bright parts of your subjects; let the rest of the area fall into darkness. If you wish to use some fill with color film, keep it no brighter than one-fourth that of the main side lights.

There's another type of low key effect which can be listed among our collection of unusual shots. This one contains a *lighting cue* during the take. At some point in the action, the main lights are switched on or off, producing a very distinctive result. Some amateur filmers have given their pictures a nice finishing touch with well-motivated lighting cues. One movie maker ended a picture of his little daughter with a shot of her going to bed. This device has been used many times before, but he also showed the girl's mother turning off the lights before she left the room. Then the girl was seen in bed by the dim glow of what seemed like moonlight.

Three No. 2 photofloods were used on this scene. Two of them drew their electricity from an outlet that was connected to the wall switch. The third lamp, which remained lit and provided the low-level illumination at the end of the shot, was plugged into a wall tap. The take was a fairly long one, and began with the mother tucking her daughter into bed. Then she flicked the switch on the wall, throwing the room into what appeared to be semi-darkness on the color film. The remaining photoflood, naturally, supplied just one-third of the light that all three together produced.

Another type of unusual shot is produced by moving the camera really close to the subject. Small and insignificant objects appear unusual when projected many times their normal size. Keys, watches, clocks, model trains, and even egg beaters look impressive when photographed from a short distance.

The phrase "visual variety" describes the main value of these extreme close-ups. They give the audience a change of scene for a few seconds without moving the camera to a new location. Your movie story may not be furthered with big close-ups, but they'll certainly be an enjoyable addition. Let's take a sequence of someone frying an egg, for example. You're making a film of a camping trip and want to have a few shots of breakfast being prepared. As a gag, you can move in *close* to show that egg being broken and dropped into the pan. As it sizzles away, nearly filling the screen, the audience will almost smell that egg frying.

When you're filming at the golf course, don't overlook the chance to take some big close-ups of the ball being hit and, a few scenes later, rolling into the hole. One illustration here shows a scene from a movie about a young boy who's learning golf from his father. The ordinary medium shot reveals how the boy is perfecting his grip and swing. For novelty, a big close-up of his club being lined up behind the ball was filmed.

A smooth *continuity of movement* was maintained in editing this sequence. As soon as the ball was hit in the close-up, the scene was cut back to the medium shot and showed the ball sailing out of view. The boy's father than congratulated him on the drive and dropped another ball on the ground for him to hit. In putting together the picture this way, an unusual shot was used without disrupting the normal flow of the picture.

Telephoto lenses or auxiliary close-up lenses may be used to make these close shots. At distances of less than a foot, a portable titler with the title card removed should be employed.

Learn to look about you for opportunities for unusual shots. You'll spot them in many ways. What counts is what you do to give your films "something extra"—that something to make your audiences sit up and take notice. Everybody likes a surprise. And a surprise in your movies is doubly enjoyable.—

Loading Sheetfilm Properly

You'll avoid a lot of grief in loading sheetfilm if you have a regular system which helps you to know exactly what you're doing at all times. Furthermore, since the entire operation must take place in total darkness (in a majority of cases, at least), the sooner you get the proper habits the better. The following tips have helped me greatly since I started using them.

First, it's a good idea to arrange the film and holders on your bench or table before turning out the light. Good practice is to leave the slides in the holders but pulled nearly all the way out, to avoid fumbling around once your loading commences. Next, locate the notches on your film—they should be at upper right corner, when the film stands vertically with the notches at the top, so that your right index finger will encounter them naturally in loading. When the film is held this way, the emulsion side is facing you. Make certain that the film has been pushed all the way inside the holder. The best way to insure this is to slide your fingernail against the leading edge of the film as you push the film in with your index finger. When a sheet is loaded, push your slide into its channels, making sure that the raised dots are to the outside. Press the holder-flap down as you slide the film in so the slide will engage the proper slit in the end of the flap.—*Charles Yerkow, New York, N. Y.*

Hollywood report

by Louis Hochman

That Old Bogey, TV

Everyone loves a mystery, and Hollywood's produced some corkers in its time, but the one that's got the moviemakers guessing is, "Where were you on the night of so-and-so when such-and-such was playing at the neighborhood cinema—and what's TV got that Hollywood doesn't have more of—and better???" It's a brutal fact that since the TV blitz, some of our pet thespians have played to empty houses. Seems that if the story's a lemon, even a magic name can't pull in the populace like in the good ol' days. Guess it's a lot cozier for a guy to stay home and be bored by TV than to go out and pay for the privilege elsewhere.

"Well," says Hollywood, "if it's good pictures they want, we'll give it to 'em." Practically every studio has stopped making B pictures. At Columbia, MGM, 20th Century-Fox, and most other studios, they now spend weeks rehearsing a whole picture through in sequence, à la stage shows, before putting film in the camera. This used to be considered wasteful in the days when a quickie rehearsal, dashed through immediately before each take, was the accepted procedure. In those days, actors had trouble getting acquainted with their parts since they never knew which end of a story they'd be shooting from one minute to the next. Surprisingly, the studios found that they actually saved money with the pre-rehearsal routine because, when shooting time came, everything rolled along like a well-oiled machine, cutting down costly production time considerably—and the pictures are coming out a lot better, too! You just ain't living if you haven't seen *Death of a Salesman, The Blue Veil, The Greatest Show on Earth, Quo Vadis, Viva Zapata!, Retreat, Hell!, Bright Victory,* etc.—and there's plenty more a comin'.

Mother Nature's Helpers

When it comes to screwy practices, Warner Brothers is no slouch. While shooting *The Big Trees* deep in the heart of the giant redwood forests at Eureka, California, they flabbergasted tourist spectators by applying makeup to foreground trees to tone down the red color and make them look more "natural" to the Technicolor camera.

MGM's masterminds on the *One Piece Bathing Suit* set made Esther Williams' swimming pool look more natural to the color cameras by adding a dash of blue dye to its fluid contents.

Most of the glass you see being smashed in a picture is a phony facsimile which looks real but won't even cut its way through butter. However, when David Brian shatters a huge, glass-paneled surgery room partition in Warner's *This Woman Is Dangerous*, you can bet the stuff is real because director, Felix Feist, wanted the camera to capture the jagged effect of broken panes.

During these shattering scenes, all set workers retreated to a safe 25-foot distance, out of range of flying fragments, and the camera was adjusted to run on its own, the operator having also withdrawn to safer grounds.

Convertible Convertibles

If you think your car is falling apart, you should see some of the cars being used at Paramount on the Bob Hope *Military Policeman* set. These cars, all flashy new models, come apart in more sections than my late-lamented Ford. They're used in scenes where the camera has to get in and shoot angles of the occupants without portions of the car interfering. Any portions of these cars that get in the way can be unhooked and rolled away, leaving the remainder of the car intact and wide open for interior closeups. The brains behind these breakaway cars belong to assistant director Dick McWhorter, who conceived the idea as an improvement over the old method of breaking up a new car each time interior scenes are required. On the side, he runs a business called Studio Process Bodies, where his chief "gismologist," Bill Thompson, slices new car bodies into the craziest assortment of sections, then fits them with ingenious hooks and clamps to hold them together again, in such a way that you can't even find the seams. McWhorter rents these jigsaw puzzle jalopies to studios for $100 a day, and at that, he's saving them money.—▶

WATCH FOR . . .

The following features, currently showing at neighborhood theaters across the country, are recommended as excellent examples of cinematography. They can be viewed with profit by both still and movie photographers.

BELLE OF NEW YORK—*MGM*—Fred Astaire, Vera Ellen, Keenan Wynn. Photography by Robert Planck, in Technicolor. Colorful routines and amusing trick photography.

MY SON, JOHN—*Paramount*—Helen Hayes, Robert Walker, Van Heflin, Dean Jagger. Photography by Harry Stradling, in black and white. Beautifully done. Dramatic lighting effects and angles. Excellent mood photography.

WITH A SONG IN MY HEART—*20th Century-Fox*—Susan Hayward, Rory Calhoun, Thelma Ritter. Photography by Leon Shamroy, in new, low-key Technicolor. Colorful dance routines, dramatic moving boom angles.

FLESH AND FURY—*Universal-International*—Tony Curtis, Jan Sterling, Mona Freeman. Photography by Irving Glassberg in black and white. Some interesting effects carried out with manipulation of the sound effects combined with dramatic closeups.

(Advertisement)

FILTERED FACTS

by *Ed N. Lite*

WITH your permission, school's out for May. I must collectively answer over 900 wonderful (thanks) letters via this one column. You all ask the same question—"O.K., Ed, I'll use Filters—so how do I start?" So—I talked to the Big Boss and he said—"Ed, why not make up some basic filter assortments for your readers that would do the bestest for the mostest." I did my best. Across the page there is a listing of Filter Kits which ought to start most of you still camera folks off right. If your still camera is not listed, write direct or via friend dealer—for May only—and we will get one of these special kits together for your camera pronto. I'll call these the EdnaLite DuraKlad Coated *UNIVERSAL* Filter Kits, "UNIVERSAL" because they are intended for *BOTH* Black-and-White and Color.

For Black-and-White I've picked the ever-famous Y-2 (K-2) Medium Yellow Filter because summer's a'comin' and blue skies, sharp contrast, snowy white clouds will be there for FREE. Then, I've selected the R-2 (25A) Medium Red Filter for those dramatic Black-and-White artificial "moonlight" (Hollywood) silhouette effects.

For Color I've included the Chrome-Haze (Skylight No. 1A) Filter (a "must" for daylight color outdoors) and the ChromA (Conversion No. 85) Filter for indoor Kodachrome when used outdoors. All of these, with room for two extra Filters, in a Texhide Case with strap loop. Each Kit will have the proper "instrument finish" Sun Shade with Dual Retainer and Adapter, to fit *YOUR* camera. Nothing else to buy!

For you still camera fans this "Universal" assortment is your answer for planting both feet (Black-and-White *and* Color) into filter-photography. It's a free ride because, spread over your film costs, the pleasure in saved and enjoyable film will easily pay for your EdnaLite DuraKlad Coated *Solid Optical Glass* Filters—the Filters for a lifetime! (Movie Takers—see you next month on a kit for your needs. I want to get you started, too!)

Now let's be further serious. Why EdnaLite! First, our Armed Services use solid optical glass filters—because they are "life-time" and as modern as the atom! They insist on vacuum-coating on *BOTH* sides. They insist on the specially designed non-slip shock-resistant DuraKlad rim. That's why! And their insistence is what makes EdnaLite available to you! EdnaLite makes no photographic film or other trumpery but EdnaLite sure lays claim to being the world's largest and most significant optical glass filter maker. Also, it knows its business.

Incidentally, to you wonderful folks who've praised your experiences with EdnaLite DuraKlad Coated Solid Optical Glass Filters in contrast to unfortunate experiences with those overplugged "sandwiches"—my thanks! I guess colored gelatin and cement—no matter how disguised or dressed up—really belong in the laboratory. Remember—it's YOUR money you're spending! It's now my job to see you get a bigger bang out of filter-photography. Write—please—on all your Filter thoughts, questions and experiences. See you next month.

Ed N. Lite
200 N. Water Street
Peekskill, New York

A review of progress

continued from page 45

mechanical hand coloring method offering considerable color control. The basic process had been developed before the war by Jack Crawford, who subsequently joined Kodak in Rochester, N. Y., where it was perfected in its present form.

In 1939, war broke out in Europe and there was great interest in the possibility that photography might serve a number of essential military purposes. Although war-time developments and applications of color photography had no marked effect on the progress of the war, many of them turned out to have long-range significance. For example, war hastened the debut of Ansco Color film which was released to the Armed Forces in 1942 and didn't reach the civilian market until 1944. Its military advantage lay in the fact that it could be processed in field laboratories immediately after exposure instead of being sent back to the manufacturer's processing laboratory. This was made possible by the incorporation of non-diffusing colorless dye couplers in the gelatin emulsion layers of the film, permitting the three subtractive primary dye colors (cyan, magenta, and yellow) to be formed in the respective layers during one color developing step.

Another development was Kodacolor Aero Reversal Film, a relatively fast, high-contrast color transparency material intended for aerial reconnaissance which was released in 1943 to the military establishment on a production basis. Like Ansco Color film, this material could be processed immediately in field laboratories, thanks to a unique "protected coupler" system devised by Kodak. This system was later incorporated in the user-processed Ektachrome and Ektacolor film processes as well as in Kodak's Kodacolor service for making low-cost amateur color prints on paper. A modification of Kodacolor Aero Reversal Film is now in general military use. It is known as Kodak Ektachrome Aero Film. A second modification, with partial infrared sensitivity, was worked out during the war for camouflage detection purposes.

Other war-time color developments were Ansco Color Paper and Gasparcolor opaque print material, both introduced in 1943 for industrial and military uses. Both were designed for processing by the consumer. The former was a print material used principally for military mapping purposes. It was printed either from black-and-white separation negatives or from color negatives. Gasparcolor, on the other hand, was a positive-to-positive print material based on the dye destruction principle (in contrast to reversal color development), characterized by the high color saturation that could be achieved, with its component azo dyes when brilliant color transparencies were printed.

In recent months there has been considerable interest in professional photographic circles in negative-positive color printing processes. This is largely attributable to increasing use of Ektacolor negative sheet film and Ektacolor Print Film. The most dramatic example of the possibilities of these materials is the spectacular Colorama display in New York's Grand Central Station which confronts the tens of thousands of commuters and long-distance travelers who use the station every day. One of the important developments in this field that has contributed substantially to the high quality of the results obtained was the introduction several years ago of colored self-masking dye couplers in the structure of Ektacolor negative film. These colored couplers are also incorporated in the emulsion layers of Kodacolor amateur rollfilm and have produced substantial improvements in the quality of the prints obtained.

A color print material having novel principles was brought out by the Du Pont Company in 1949—Du Pont polymer-type color release material. In this process, which has been used for motion picture printing and experimentally for color sheet transparencies, one of the components which forms the dye is part of the film emulsion vehicle in which the picture is ultimately formed. The vehicle is a synthetic polymer instead of gelatin which is ordinarily used.

From a number of points of view, the camera has undergone changes in the past fifteen years. In Volume I of POPULAR PHOTOGRAPHY, in the issue for August, 1937, there was a debate on *Will the Miniature Survive the Candid Camera Craze?* Apparently there was doubt at that time, but there certainly is none now. For some years, the miniature camera, which was essentially a still camera using 35-mm motion picture film, was the exclusive possession of the "advanced amateur"—a device endowed with the utmost flexibility through the user's ability to change lenses and hang all kinds of gadgets on it. In recent years, however, the miniature camera has not only remained an instrument of precision but has also become available to many less demanding amateurs at low cost, and fairly simple to operate.

Other cameras than the 35-mm miniature have flourished during the past 15 years. Shortly before the war, the so-called twin-lens reflex camera won the favor of many magazine photographers and professional illustrators specializing in field work. A legion of advanced amateurs and many who were not so advanced quickly followed the professional trend. More recently there has been considerable interest in small single-lens reflex cameras which enable the user to view the subject on a groundglass screen in full size through a reflecting system, right up to the instant of exposure. Some of these cameras are equipped with prism systems to permit eye-level viewing while others are used at waist-level.

Right after the end of the war, there was a flurry of interest in "sub-miniature" cameras taking 16-mm and smaller film. Of these, only the prewar Minox, which has a shutter with speeds up to 1/1000 second and an $f/3.5$ anastigmat lens seems to have earned recognition as a photographic instrument for the serious worker. During the war, it had been used extensively for intelligence work.

Through the years, the press-type camera has grown in popularity as an ama-

Complete photographic kit developed for use by the O.S.S. during World War II consisted of matchbox camera (in hand), film, processing equipment, chemicals.

teur instrument. Film handling and changing has been facilitated by the development of sheet-film magazines and rollfilm backs. Its designers have borrowed liberally from the miniature-camera makers to invest it with operating conveniences and safety features so that some models are practically fool-proof.

The built-in coupled rangefinder, originally introduced with the precision miniature camera, is now supplied in many different types of camera, usually in the upper and middle price ranges. Practically all cameras made today have some sort of internal flash contact mechanism to fire flash lamps or electronic flashtubes at the time the shutter is operated. In the case of simple box and folding rollfilm cameras, a simple set of wipe contacts attached to the shutter blades generally does the job. The synchro-shutters of most press and reflex cameras, however, have auxiliary switches and gear train mechanisms to provide adjustable time delays to accommodate different types of flash lamps as well as flashtubes with zero and 20-ms delay mechanisms. Before the first adjustable synchro shutter (the Ilex Acme No. 3) made its appearance in 1943, either mechanical synchronizers or solenoid shutter tripping devices were used for flash work. As for camera externals, there has been a trend toward body releases for shutter tripping to improve the steadiness with which the camera is held. Waist-level viewfinders of the brilliant reflecting type have all but given way to eye-level types, optical and otherwise, during the past 15 years.

The most significant development in between-lens or front shutter design has been the Kodak "800" Synchro-shutter which provides a top speed of 1/800 second, the result of using centrally-pivoting shutter blades which move in only one direction to effect an exposure. This shutter is available on the more expensive Kodak Tourist folding cameras and on $2^1/_4$ x $3^1/_4$ press cameras of different makes.

In lenses, too, there have been forward strides. Many new lenses of high aperture and good quality are now available. For example, apertures of *f* 1.4, *f* 1.5, and *f* 1.9 are now common in the 35-mm miniature field. Anti-reflection coatings which minimize internal reflections and ghost images and improve shadow definition are available on practically all new multi-element lenses. Coating creates a small but significant increase in the actual light transmission of lenses with many air-to-glass surfaces. This is much more important in cinematography where highlight densities must be precisely matched to create uniform screening quality than in still photography. Toward that end, many professional cinematographers have their lenses calibrated in T-stops, representing actual light transmission in which internal reflections and other light losses are accounted for. Some manufacturers have been offering their lenses calibrated in T-stops rather than the familiar *f*/-numbers. Kodak's new silica-free glasses, developed just before the war, which have low dispersion and a high refractive index are now being incorporated in many lenses with a substantial improvement in lens quality and reduction in the manufacturing labor involved. A particularly important development in recent years is the zoom lens with straight linear movement perfected by Dr. Frank Back of the Zoomar Corporation. This type of lens which is extensively used in television and motion pictures performs the function of a lens of continuously variable focal length (without changing the aperture). It consists of fixed and movable lens elements, the latter controlled by an external lever.

One of the great revivals in recent years was stereoscopic photography. Everybody has seen Grandfather's old stereo pictures and enjoyed them. About the turn of the century, they were very popular, but then the interest lagged in spite of the persistence of a few hardy stereoscopic societies, particularly in England, and of the Jules Richard Company in France, which made the Verascope.

Since the war, however, there has been a marked surge of interest in stereoscopic photography. It has been due largely to the Stereo Realist camera put out by the David White Company along with a compact self-illuminated hand viewer and to the Sawyer View-Master which is an inexpensive stereo viewer using a ring of small color transparencies. Sawyer and others are now putting out new stereo cameras and the Verascope (imported by Busch) is again very much in the picture. T.D.C. of Chicago recently put out a stereo projector (based largely on the fundamentals of E. Leitz' prewar Stereo-ly-Polaroid projection system), and David White has one in-work. The Taylor Stereo Table Viewer, now in its second year, has made it possible for small groups to view stereo scenes together, and the inexpensive Nord adapter has brought the pleasures of stereo to the 16-mm movie maker.

An age-long problem in photography has been to make a camera which would deliver a finished photograph to the photographer. We are all familiar with the complicated machines in stores, railway stations, and other places in which a coin is placed in a slot and eventually a photograph is produced. It was not, however, until a few years ago that the amateur was provided with a camera from which a picture could be delivered with a minimum of effort and in a short time. Fulfillment came in the Polaroid-Land Camera, which produced a photograph in about one minute from the time the exposure was made. This camera has now had many special applications and has even been used for aerial photography and radiography.

As for enlargers and printers, a great variety of models have been produced in the past fifteen years. The aspect which appears to represent the greatest change is the introduction of cold-cathode grids and circular fluorescent lamps as light sources. This is largely the result of the impact of the Aristo Cold-Grid Lite which reached the market in 1948. The Navy has also described enlargers in which they use electronic flash in order to reduce exposure times to a minimum, to avoid the effects of vibration.

In the thirties, there developed a great interest in home photography at night

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time. This was partly due to the availability of fast panchromatic film and of special high efficiency lamps for lighting the subject. Extra bright light is provided by increasing the voltage on an electric lamp and advantage of this principle was taken in the development of various photoflood-type lamps. One of the handiest forms of photoflood illuminant is the reflector flood and reflector spot lamp which have their own built-in silver reflector and need only be screwed into a lamp socket for use. The Wabash Superflood Reflector lamp introduced in 1939 was the first of this type.

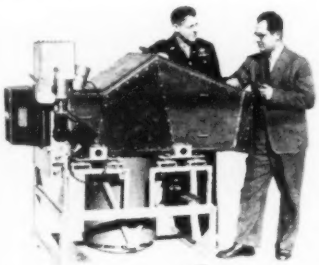
Flashbulbs were first developed in Germany in the late twenties. It was not long before they were manufactured in this country by General Electric and Westinghouse, first in the form of a lamp filled with aluminum foil, and a little later with a magnesium-aluminum alloy wire (Wabash Superflash), and eventually with shredded aluminum foil. Flash lamps are now made in vast quantities and are an important part of the kit of the amateur as well as of the press and commercial photographer. The two outstanding improvements in flash lamp design during the past 15 years that contributed to the almost hundred-fold increase in flash lamp consumption were (1) the midget flashbulb which was pioneered by G-E in 1939, and (2) the introduction of the Class F primer-burning flash lamp, the G-E Speed Midget or SM, in 1941, which enabled the user of inexpensive cameras with slow shutters to stop action at 1/100 to 1/150 second indoors by the quick flash of the lamp. Today all lamp manufacturers make compact midget flash lamps which, in properly designed reflectors, are as efficient exposure-wise as larger lamps, and the vast majority offer Class F lamps as well.

Very significant was the introduction of the repeating flashtube illuminant variously identified as electronic flash, speedlight, and strobe, which depends upon the discharge of a high-voltage electrical potential through a gas-filled tube. Originally developed by Professor H. E. Edgerton at M.I.T., in 1938, flashtube outfits have been made available for studio use, for night reconnaissance photography with military aircraft, and in portable form for press photographers, other professionals, and a substantial number of advanced amateurs.

An important recent development in the field of flash photography is concerned not with the flashbulb or tube but with the power supply. It is called the battery-condenser (B-C) unit. It employs a dry battery of high voltage and a condenser charged by it, the energy from the condenser being released to ignite a conventional flashbulb. The principle was first employed in the Kalart Multiflash extension unit around 1935 and made use of relatively bulky radio "B" batteries and condensers. Modern B-C units patterned after circuits published by Messrs. P. A. Marsal and W. H. Fritz of the National Carbon Company employ compact electrolytic condensers and tiny "B" batteries such as are used in hearing aids. The first B-C flashing unit to reach the market was the Jen-Flash II synchronizer for the Leica and similar cameras—in 1949. Later that year, Forbees of Stamford, Conn., brought out the first B-C solenoid synchronizing unit, based on a modified circuit published by W. H. Fritz. Today practically all flash equipment manufacturers are offering either complete B-C flashing units and synchronizers or small B-C flash cartridges to replace the conventional flashlight battery power supply.

Fluorescent lamps have found some use in photography, both for general broad illumination and for light sources in enlargers, and special lamps and filters have been devised for use in color photography.

There has probably been more knowledge of photographic emulsions gained in the past fifteen years than at any other time in the history of photography. Manufacturers can now produce films, plates, and papers to meet a great percentage of



Post-WW II aerial camera features 100-inch focal length lens with folded light path for shooting from 50,000 ft.

the demands that are required of them, not only from the point of view of speed, grain, and resolving power, but also on the score of sensitivity to special colors and the ultraviolet and the infrared, improved keeping properties, better picture quality, and so on. A very interesting sensitized material developed in recent years was Corning Photo-sensitive glass, announced in June 1947. The picture is printed into the glass with ultraviolet radiations and developed by subjecting the material to heat in an electric oven. Applications have been decorative in the main.

A very important step which was fulfilled in 1950 was the transfer by the Eastman Kodak Company of its entire film output to safety support. The early films were made on a base of cellulose nitrate which was inflammable and provided a definite hazard in situations like motion picture film projection. This film, however, had many desirable properties, and for over thirty years research has been under way to try to find a film of low inflammability which would have the other required characteristics, including, of course, no great increase in cost. This has now been done. Quite recently, Du Pont has announced a new type of safety film support chemically different from the normal types, which is stated to be very tough and to have good dimensional stability.

There has been much progress in pho-

tographic papers in the past fifteen years and some entirely new types have been developed. Some photographers have always been interested in a paper in which the printing contrast could be varied in the printer so that only one grade of paper was required. By far the most outstanding paper of this type here in the United States was Du Pont Varigam, developed in 1940 by the research department of the Defender Photo Supply Company (merged with Du Pont in 1945), under the direction of Dr. R. S. Potter. A year earlier, a somewhat similar paper, Ilford Multigrade, was brought out in England. The contrast is varied by altering the color of the printing light.

A few years ago, as a result of a very extensive study of the printing quality of amateur negatives and of the development of a new type of paper, it became possible to put in the hands of photofinishers machines which processed continuous rolls of paper prints. This was only possible if one grade of printing paper could be used and developed for a single standard time of development. This was accomplished and Kodak Unicontrast Paper was put out and was later followed by products of other manufacturers.

During the war, there was need for printing papers on water-resistant supports which would retain their dimensional stability and also permit rapid drying after processing. A material of this type called Air Map Special, made by Grant Photo Products of Cleveland, had been used for aerial survey work from the mid-1930's on and found an immediate application in military photography. Water-proof papers made by Defender, Haloid, Kodak and others were also used by the Armed Forces.

There has been a significant trend in recent years in rapid copying of documents. Of the silver halide materials suited to this purpose, one of the most interesting is the recently introduced Kodagraph Autopositive Paper which gives a direct positive from a positive original and depends on the so-called "Herschel effect." The first positive-to-positive (or negative-to-negative) silver halide material available in this country was Agfa Ansco's Direct Copy Film, introduced here in 1937. It had first been made available in Germany by Agfa in 1934 as *Direkt Duplikat* film. A document reproduction process based on electrostatic principles, which is known as Xerography, was recently developed by the Haloid Company and the Battelle Memorial Institute. This process has proven adaptable to photomechanical reproduction and has also shown some promise of being suited for continuous tone photography, with further development. A number of other photographic rapid-document copying processes have been announced in Germany, Belgium, and the United States, depending on transfer of an image or an image-forming substance from a sensitive layer to a receiving sheet—such as Agfa Copyrapid, Gevaert Diaversal, and Apeco Auto-Stat.

In the important field of exposure determination, there have been several important developments since 1937. As part of the notable photographic standardization program undertaken by the photographic committee of the American Standards Association in 1938 (replaced in 1951 by four committees), a standard method for the evaluation of speeds and exposure indexes of photographic films was arrived at. ASA exposure index numbers are now indicated on the dials of all but one of the modern American meters now on the market. During this time, meter sensitivity has been improved and there has been a notable shift in photographic practice toward exposure determinations based upon incident light measurement to the extent that public favor is about equally divided between the use of incident and reflected light measurement at this time. This is evidenced by the fact that practically all of the meters on the market designed for measuring reflected light are equipped with incident light attachments, whereas meters designed primarily for incident

Photography — Frank Adams

"I never know what to do with my hands when my picture is taken."

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measurement can be readily adapted for reflected light measurements. First of the incident light meters available on the market was the Avo Smethurst Highlight exposure meter introduced in England just before the war. The Norwood Director which was used exclusively in Hollywood and was subsequently introduced to the amateur market by Director Products of New York was the principal proponent of the incident light trend in this country. It is interesting that with a few isolated exceptions, extinction type meters have practically disappeared from the American market, although they are popular in Europe and, two of the professional brightness meters favored by engineers, the SEI and the Luckiesh-Taylor, are based on this principle.

Color temperature meters, too, have been introduced in recent years, both visual and fully automatic photoelectric types. Kodak and Harrison visual type meters have been popular; the Spectra two and three-color photoelectric meters have been prominent among the automatic instruments.

There has been a general improvement in the formulas for photographic processing solutions. A variety of fine-grain developers has been evolved, an investigation has been made of possible means for accelerating the development of films and papers, and it has been possible to develop certain types of film—not high-speed negative materials—at temperatures of 125 F, in a fraction of a minute.

Attempts to produce photographic prints rapidly, provided long life is not an important matter, have resulted in the development of stabilization processing techniques, in which the silver image is developed and the undeveloped silver halide is converted into a more or less stable complex. This results in the elimination of the need for fixing and washing.

There has been a very great increase in the use of processing materials in the form of powder packages or concentrated solutions. Years ago it was felt that the photographer was more interested in buying individual chemicals and compounding his own solutions. This is not so at the present time, with the availability of a great range of packaged chemicals of great reliability. Quite recently some developers have appeared on the market in the form of single powder packages. It had usually been necessary in the past to segregate components of the developer into different parts of a package, but it is now possible to avoid this in some cases, with an increase in convenience to the user. Rapid fixing baths employing ammonium thiosulfate in place of sodium thiosulfate (hypo) have grown steadily in popularity in the past 15 years. It began with Agfa Ansco Rapid Fixer and received considerable impetus with the launching of Edwal Quick-Fix in 1939. Today there are many photographic chemical manufacturers offering rapid fixers of this type in proprietary formulas. Also interesting has been the increasing availability and use of organic restrainers or anti-fog compounds which permit overage materials to be used with minimum danger of chemical fogging.

The war, of course, had a great influence on photography. The bulk of our knowledge of the enemy was derived from photographs. We cannot go into details on the many applications of photography in the military sphere, but the following list of subjects will indicate some of its diversity: mapping, reconnaissance by aerial photography, aerial flash photography at night, the stereo continuous strip camera, color and camouflage detection, the moving film magazine for image movement compensation, training, combat and gun camera photography, special photography in the tropics and arctic regions, underwater photography, and photography of the radar scope.

In the amateur motion picture field, the greatest changes have been the preponderance of color over black-and-white film, and the rapid increase in the use of 8-mm film. Quite recently the possibilities of adding sound to amateur movies, both 8 and 16-mm, by edge coating the film with a magnetic oxide striping have been explored. This is largely the outgrowth of development work by Marvin Camras at the Armour Research Foundation. A striping service has been made available by Reeves Soundcraft in New York and Hollywood and by the Eastman Kodak Company. Magnetic (and optical) 16-mm sound projectors are now available from RCA and Bell & Howell and more are on the way.

Photography is the handmaid of science and particular impetus was given during the war to its application to scientific and technological study. In the atom bomb tests and the wide range of closely associated nuclear studies, in the probing of the universe by the astronomers, in the investigation of structural defects, in the storage of information, in the study of high-speed events, and in a great variety of other fields, photography is playing an indispensable part.

The first fifteen years of the life of POPULAR PHOTOGRAPHY have witnessed photography in all its aspects growing at a rate not attained at any other time in its history. The interests of the amateur and professional photographers are just as responsible as those of the scientist in stimulating this. From the correspondence that swamps PHOTOGRAPHY magazine in the wake of each new development of more than passing interest reported, it is apparent that the photographic magazines, too, are playing an effective though indirect part in this evolution.

The editors continue to be amazed by the flood of new product news that keeps rolling in despite materials shortages and defense restrictions. What a dizzy time photographic editors are going to have in the *next* 15 years, if things go on at this rate!—▶

Photographic Credits

United States Navy—*one photograph: page 43, top right.*

United States Air Force—*two photographs: page 43, middle left; page 232.*

United States Navy—*Johns Hopkins—one photograph: page 43, middle right.*

Eastman Kodak Company—*two photographs: page 43, bottom left; page 230.*

Dr. Slack, Westinghouse Research Laboratories—*one photograph: page 43, bottom right.*

Notes on the portfolio

page 65—Torkel Korling

The photographer's own hand and that of his baby son modeled for this shot which was used in national advertising by the Union Central Life Insurance Co. His wife held the child while Korling manipulated the camera with his left hand and fired two flashlamps with a foot-switch. His camera was a 4x5 Linhof Technika equipped with a 16½-cm Zeiss Tessar f/4.5 lens, and exposure was for the duration of the flash, at f/20, on Defender X-F Pan film.

page 66—Berenice Abbott

To get all the brilliance of mid-Manhattan's office-window lights after dark, Berenice Abbott used Kodak Super-Sensitive Panchromatic film; 15-minute exposure at f/11. She used an 8x10 Folmer Universal view camera with a 12-inch Zeiss Protar f/6.3 lens.

page 67—Martin Munkacsi

Acrobatic dancer Dinah Grace, performing in a Budapest theater, was the subject of this pioneer stage shot by Munkacsi, who used a 9x12-cm Miner camera with 24-cm Dallmeyer f/2.3 lens. Exposure was 1/300 second at f/2.3 on a fast Ilford plate.

pages 68-69—Roy Pinney

A few drops of lemon juice on the baby's lips brought out just the expression Roy Pinney wanted for this shot, which was First Prize winner in the black-and-white division of our 1950 contest. He made it with a 4x5 Speed Graphic camera, which had a 135-mm Meyer Primotar f/3.5 lens. Two Press 40 flashlamps provided light, and exposure was 1/200 second at f/32.

page 70—F. S. Lincoln

In his New York studio, Lincoln made this dramatic picture of modern dancer Ruth Page. He used an 8x10 Eastman view camera and 30-cm Schneider Symmar f/6.8 lens. Exposure, on Eastman Portrait Pan film, was one second at f/16, with illumination furnished by two 1000-watt projection bulbs in reflectors.

page 71—Dorothea Lange

The moving picture of an "Okie" mother and children was made by Dorothea Lange, a California photographer who won her Guggenheim Fellowship for work done for the Resettlement Administration, the Farm Security Administration, the Bureau of Agricultural Economics, and the California State Emergency Relief Administration. Technical data for this photograph is not available.

page 72—William Mortensen

Girl of Zaragoza was made with a 3¼x4¼ Graflex and 8-inch Zeiss Tessar f/4.5 lens. Exposure, on Kodak Verichrome film, was 1/5 second at f/8. The print was finished by the famous Mortensen Abrasion-Tone process, a method of print control by the use of pumice, chalk, and ink, which produces an unusual, pleasing tonal quality.

page 73—W. Eugene Smith

Seven cameras went with W. Eugene Smith to the Pacific when he was sent to cover that battle area for Ziff-Davis publications, but he frequently found himself with no more than one in working condition. This beautifully-composed shot, made while his flight was under attack by Japanese Zeros over Tinian, was taken with a Speed Graphic outfitted for aerial work. Things were a bit hectic that day, and no record of exposure data was kept.

page 74—Yousuf Karsh

On a dismal day in December 1941, when Britain's Prime Minister came to Ottawa to address the Canadian House of Commons, Karsh made this classic portrait of Churchill which launched him as one of the world's

THE MAY COVER

Carroll Seghers and his wife, Betty, watched the Ringling Circus rehearsal for one afternoon at winter quarters in Sarasota, Fla., looking for some colorful circus action to photograph. They found 11-year-old Curtis Gender, son of the aerial director, doing somersaults, twists, and almost all the feats of the fullgrown acrobats around him. Betty made him his bright red, green and yellow jester costume and his trampoline was set up on the white sands of the Gulf of Mexico. The beach was to serve as a bright reflector and also eliminate background problems. Carroll used two Rolleis and shot in both black and white and Ektachrome color. The exposure for the color shots was hard to decide. He wanted to shoot from a low angle for a plain sky. This meant he might not have Curtis's body in parallel plane to his camera lens, and head or feet might be way out of focus with too wide a lens aperture. Although Curtis was a skilled performer, it was a gamble to count on his striking the exact clowning positions wanted at the peak of his jumps. After much second guessing, Carroll decided on 1/200 sec. at f/5.6. He later experimented at 1/350 and 1/100 sec., but finally decided on the original exposure.

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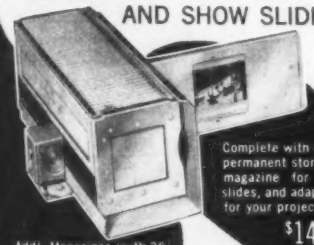

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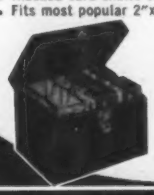

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greatest portrait photographers. He made the picture in five minutes, under extremely adverse conditions, and the Prime Minister's expression reflects both the concern and the determination of free men at that critical moment in world history.

page 75—Philippe Halsman

The portrait of Ricki Soma was made by Halsman with a 3¼x4¼ twin-lens reflex camera of his own design, with a 21-cm Zeiss Tessar f/3.5 lens. Light was furnished by two Johnson Ventlite floods, one as the main source, the other as fill-in. Exposure, on Ansco Isopan film, was 1/5 second at f/16.

pages 76-77—Alfred Stieglitz

Steaming, champing tram horses of the Harlem street railway in New York were photographed by Stieglitz with a 4x5 hand camera shortly after the introduction of that "revolutionary" device. This was in the eighth year of a productive career that extended over more than 50 years. Stieglitz was one of the first to take advantage of the freedom from encumbrance offered by easily portable equipment, and the latitude made possible by what were then "fast" films.

page 78—Tana Hoban

The hoop-rolling child was found by Miss Hoban in Philadelphia's Washington Square, and she photographed her with a 3¼x4¼ Series D Graflex with 6-inch Zeiss Tessar f/3.5 lens. Her exposure as 1/200 second at f/3.5 on Kodak Super Panchro-Press Type B film. This use of a wide aperture is characteristic of Miss Hoban's work; it concentrates attention on a single plane and throws background and foreground out of focus.

page 79—Andreas Feininger

The eight-pointed "stars" around the lights of Manhattan Bridge were created by Feininger's use of two pieces of ordinary windowscreen in front of his lens. By this means, he transformed what would otherwise have been halation into an effective and decorative asset. A single piece of screen used in this way would have produced four-pointed "stars."

page 80—David Douglas Duncan

This Marine in Korea, crying not from pain but because he has just witnessed the death of his buddy, was photographed with a 35-mm Leica IIIc, equipped with the 50-mm Nikkor f/1.5, a Japanese lens whose excellence has since been widely acclaimed.

gatefold—Fritz Henle

America's glorious West is epitomized in Fritz Henle's great color shot, which drew more letters of praise and admiration from readers than any other published last year. He made it with a 3¼x4¼ Linhof Technika camera, which has a 150-mm Zeiss Tessar f/4.5 lens; exposure was 1/5 second at f/16 on Kodachrome Daylight Type film. For those who think they may have stood on the same spot, the scene is the A-Bar-A Ranch, 84 miles southwest of Laramie, Wyo.

Two Studies in High Key

(Continued from page 61)

sion. Blumenfeld was using Ektachrome Type B film, intended for use with incandescent light, and he knew that daylight on this emulsion would produce an unfaithful color rendition. For this picture, this kind of "unfaithfulness" was perfectly in order, if kept under control. For one thing, he felt it would effectively accent the model's red hair. So he left on a bank of 12 daylight fluorescent lamps which he uses for normal studio illumination, to supplement the more brilliant tungsten lighting, and the result was what you see on page 60.

Main lights were a 5000-watt floodlamp in front of the model, two 1500-watt floods on the background, and a number of smaller floods to fill whatever shadows remained. Blumenfeld's camera was an 8x10 Deardorff View with a 14-inch Ektar f/6.3 lens, and exposure for the color shot was ½ second at f/6.3—an intentional overexposure to intensify the high-key effect.

The sensitive black-and-white study with its intriguing multiple-triangle composition was made with the same model and a quite similar lighting scheme: a 5000-watt floodlamp overhead, and a 1500-watt flood at each side. This was sufficient to erase all but the subtlest of shadows; the background of white paper helped by acting as a reflector. The same Deardorff camera was used, and exposure was 1/10 second at f/11 on Kodak Super-XX film.—*H. M. Kinzer.*

Candid Shots

(Continued from page 34)

that every picture you send gets the same careful scrutiny as a contribution for any other part of PHOTOGRAPHY, and that the utmost care is taken in handling and repacking them for return. This takes time, but we know you wouldn't want it any other way. We sincerely regret any inconvenience our delay may have caused, and pledge ourselves to see that no time is lost in getting your pictures back to you. For this month's spread of readers' color, see "Our Readers—Masters of Color," on pages 58-59.

Underwater Studio

Johnny Florea made the tantalizing shot of Marilyn Monroe (gatefold, pages 81-82) in the California home of his friend Phil Ilsley, whose business is building swimming pools. Ilsley is a Canadian by birth, and his own pool is shaped like a maple leaf, with its stem extending into the house, thus offering indoor swimming when the weather is inclement. He's a great amateur camera fan, and enlisted Florea's advice in planning an underwater room with two thick windows through which he can shoot either at the water line or near the bottom of the pool. Florea says it's one of the finest setups he has ever seen for underwater photography.—

Want to Be a Freelance?

(*Continued from page* 50)

more lasting results than the cash return. I came to know children better than ever before, and I attribute many of my later assignments to that summer in camp when I made an exhaustive study of one shy little boy. I also had the opportunity to develop my story sense and increase my ability to shoot unnoticed—experience well worth the risk of time involved.

So if you're free to move around—and you'd better be if you want to become a magazine photographer—I suggest you take a job that brings you to a new place or near a subject that fascinates you. For me it was summer camp and children, but for you it might be a job as apple-picker, sight-seeing guide, or purser on a cruise boat—anything and anywhere as long as you know your camera will be welcome. I'm convinced that this is a workable way to shoot better picture stories than most photographers on assignment from a magazine can get in two weeks. You have the advantage of knowing your subject from the inside, of having more time to think and plan and dream about the pictures.

But do you have to go wandering to find good picture stories? Of course not. I only suggest an occasional trip afield to give you new experience and bring you in touch with fresh material. By all means explore the wonderful picture possibilities in your daily life—your children, friends, hobbies, neighborhood. So often these are neglected by photographers who have eyes but don't see. I remember one woman who was almost in tears when *Life* sent a photographer to get a story on something that had been in her own back yard for years without her putting it on film.

Thumbing through my scrapbook I see a variety of picture subjects, most of which taught me something new about photography. It's very important, I think, to try your hand at different things before you settle down to one specialty. I took—and still take—anywhere up to several hundred pictures a month just because I can't resist a lovely child or interesting lighting. At one time I thought I should restrain myself and concentrate on "professional" work, but I found I couldn't give up carrying a camera with me everywhere I went any more than I could stop breathing. I hope I'll always feel that way.

If you're going to free lance there are three ways of working, each with something good and bad to say about it. Most of the time you'll probably be shooting independent productions where the idea is yours, the pictures are made on your own time, and you hand the editor a finished story complete with captions. Advantages: you own all rights to negatives; you can take your time because there is no editorial deadline to meet; you can choose your own subjects and models. Disadvantages: finding a way to eat while you're working on the story, and winning cooperation from subjects who know you don't have a definite assignment. Perhaps using the term "independent production" rather than "on speculation" may help to dispel some of the suspicion attached to the latter. And the two aren't the same thing, really. You should never work on speculation for editors who hesitate to commit themselves but let you go ahead without any guarantee. On the other hand, I think you should work independently as much as you can.

A definite assignment for your own idea is another matter. Here you still own all rights to negatives (in most cases), you stand a better chance of getting co-operation from subjects, and your costs will be covered by a minimum guarantee from the magazine. But if you rely on this method alone, the lack of enthusiasm on the part of editors may keep you from carrying out some of your best ideas.

Then there are straight assignments with the magazine supplying the idea. The big advantages here are that you know you're going to get paid, your story has more chance of seeing publication, research and caption work usually are done by somebody else. But there are serious drawbacks: the magazine owns all rights to your negatives; there may not be time enough for you to do as thorough a job as you'd like; and you might get assignments that don't really interest you. And frankly, you're not at all likely to get good assignments until you become known through previous work—which brings us right back again to independent production.

Good ideas are your stock-in-trade. Do you have an understanding of what magazines want—and can print? There's no set formula, but in general they like new

TEN POINTERS FOR FREE-LANCE PHOTOGRAPHERS

"There is no easy magic formula for becoming a successful magazine photographer," says Suzanne Szasz. "My only recipe: use your talent and imagination on independent work—and be prepared to work hard and patiently." But she does suggest:

1. Try combining your photography with another job—at least at first.
2. Don't overlook the good stories in your everyday life.
3. Concentrate on picture sequences rather than single shots.
4. As much as possible, work by yourself on subjects that really interest you.
5. Utilize any special knowledge or background you may have.
6. Be willing to take a risk, if by so doing you can gain valuable experience.
7. Get to know the picture editors—your customers—in person.
8. Submit only your best work.
9. Don't overdo the frills: a clean simple presentation of prints is best.
10. And . . . expect to put in a 16-hour day.

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stories (or old stories presented in a fresh way) told in pictures that lend themselves to dramatic layout. A simple story usually is easier to sell than a complicated one. Unity of subject (*A Day in the Life of Miss America*) or unity of place (*A Day at Coney Island*) are important too. Usually your chances of a sale are better if you emphasize the humorous or optimistic side of the story. Social studies and documentary photo-journalism are wonderful practice and certainly you should experiment with them if you want to—but don't expect to see them published. However, they will demonstrate what you can do and may help you get a similar assignment in the future.

Attractive presentation helps, but don't overdo it. If you have a feeling for layout, enlarge your pictures to different sizes and mount them so they make story-telling sense. One effective way of displaying prints is to dry mount them back-to-back and fasten them with spiral or ring binding. Another popular way is to mount the individual prints on stiff backings of cardboard or illustration board. However, any competent editor will be able to judge your work from a good, clean set of 8x10's.

I notice I've written several pages without a word about cameras and techniques. I'm afraid this is because I'm completely un-technical-minded. (Cameras, exposure meters, and flash guns seem to know I'm secretly afraid of them and act up on me at the worst times.) My equipment is quite simple. I use a Rolleiflex for most of my work including reportage done by available light. If I have to supplement the existing light I use photofloods or bounce flash. A white cloth reflector comes in handy to throw extra light into shadow areas. An exposure meter helps me greatly with my color work, but as I gain experience I use it less and less frequently for black-and-white.

I think I'm a pretty good darkroom worker. Perhaps it's because there is so much similarity between darkroom work and cooking—a hobby I haven't given up even for photography. I'm rarely so tired that the prospect of working in a quiet darkroom to the sound of good music doesn't appeal to me. And I still find it exciting to take that first peek at a negative.

Gadgets and technical details in themselves don't interest me, nor do I think that an exclusive devotion to them will make you a good magazine photographer. They are important only in so far as they help you to say better what you want to say with your camera. I have learned most of what I know by experience, by making mistakes, by talking to other photographers—and by being ignorant enough not to know that some things are impossible to shoot and sell.

Our field is highly competitive, but luckily there are few stories which two people could photograph alike, even if they tried. Moreover, don't forget that every story done *for the first time* by a photographer will have a special kick, an extra flavor of excitement. One cannot hope to match the freshness and spontaneity of one's first story on a sick child, for example—although acquiring experience may somewhat make up for the loss in spontaneity. It's a well-known fact that parents experience entirely different feelings with their first child than with later ones—and so do photographers in connection with the world they explore with their cameras.

As you will have guessed by now, I love being a magazine photographer. You should be able to find out in two or three years whether it will make you equally happy. As I see it, your main problem is making enough money to live while furthering, not hindering, your growth as a creative photographer. A spell as a darkroom worker or assistant may be good for a start, but sooner or later you'll need freedom of movement and a chance to do what Somerset Maugham calls "associating with your raw material."

So from the first be aware of the danger of concentrating on making money to the exclusion of shooting the stories you really want to do. Otherwise you might as well turn to some other branch of photography involving much less worry and heartache, and promising a more steady income. But if you feel that being a photo-journalist is an end in itself, then nothing else matters. You won't mind sacrificing security, cutting down on your former interests, living for your work. You'll enjoy your vacations even if they all are busman's holidays. You'll discover that you see—and consequently both suffer and enjoy—more keenly than before you looked at the world through the eyes of a photographer.—▶

PHOTOGRAPHY'S Traveling Salons

PHOTOGRAPHY offers your Camera Club, your school, your store and other organizations a Traveling Salon comprised of approximately one hundred eye-catching, prize winning prints from PHOTOGRAPHY'S annual $25,000 contest. The prints, including the top color prize-winners, are mounted and ready for hanging. So great has been the public's response to these exhibits that attendance has been estimated at more than a million and a half during 1951 alone.

Current Showings

CALIFORNIA, Glendale—(Glendale College); Fifth Salon.
CALIFORNIA, Oxnard—(Oxnard Union High School Camera Club); Fifth Salon.
ILLINOIS, Rockford—(Camera Craft); Sixth Salon.
MICHIGAN, Detroit—(Motor City Camera Club); Seventh Salon.
OHIO, Hamilton—(Champion Shutterbug Club); Second Salon.
PENNSYLVANIA, Williamsport—(Williamsport Camera Club); Fifth Salon.
TENNESSEE, Kingsport—(City of Kingsport); Sixth Salon.

May 4-18

CONNECTICUT, Hartford—(Lens and Shutter Club); Sixth Salon.
MASSACHUSETTS, Greenfield—(Franklin County Camera Club); Sixth Salon.
MINNESOTA, Duluth—(Duluth Camera Club); Seventh Salon.
MONTANA, Billings—(Billings Camera Club) Fifth Salon.
NEBRASKA, Lincoln—(Miller & Paine Department Store); Seventh Salon.
NEW YORK, Shortsville—(Twin Cities Camera Club); Sixth Salon.

A two-week showing of one of PHOTOGRAPHY'S Traveling Salons is available to *you*. For details, please write to: Director of Salons, PHOTOGRAPHY, 366 Madison Avenue, New York 17, New York.

Color Montage

(*Continued from page 56*)

light, another for a fill-in, and the third to illuminate the background.

With a series of portraits on hand, you will be ready to plan your pattern shots. For this purpose an endless variety of material is available right in your own home. For a start, round up a printed scarf and some fancy handkerchiefs belonging to the women in your household. Then look for attractive designs in the wallpaper, upholstered furniture, and drapes. Fancy gift wrappings and an endless variety of fabric samples from your local stores will provide you with more material for your color fantasies. Select patterns on pastel backgrounds for best results.

In shooting transparencies of these designs, one photoflood in a reflector will suffice for making the copy. Place the light at the camera for full front lighting. Lenses of long focal length will be helpful for getting larger images of the subject matter and enable you to isolate an interesting pattern in a small area. If you have only a lens of normal focal length, a slip-on supplementary lens will serve for close-up work. It's a good idea to make at least two exposures of each pattern, exposing one a half stop more than normal. This produces a transparency on the thin side which will permit the companion shot to come through when the pair are bound together. The normal pattern shot will be useful for mating with slightly overexposed portraits.

The design on a cut glass pitcher or bowl also makes an appropriate pattern to bind with a portrait. However, when you photograph such an object, use two lights—one for cross-lighting to bring out the interesting lines of the design. The addition of colored cellophane over you. light sources will provide countless variations with which to experiment.

With portraits and patterns on hand in the form of 35-mm transparencies you are ready to create unusual montages. An 8x10 light box or something similar will give you a soft, diffused light with which to work, and a 2x2-inch slide mask with single-frame opening enforces close cropping and thus makes you utilize the best portions of your transparencies. With a pair of pictures held in front of the light source, make adjustments in the mask until you have discovered the best possible composition. You may want to try different patterns in combination with the same portrait for variety. When a desirable arrangement has been found, fasten the one transparency to the upper edge of the mask with a piece of cellulose tape. Then make the final adjustment of the second transparency and fasten it to the lower edge of the mask. Now the sandwich is ready to be bound between glass as a finished slide.

Binding your slides is a most important procedure. You must be very careful to eliminate all dust particles, make sure the glass is spotless, and see to it that the transparencies are taped securely to the mask so they will not shift after the sandwich has once been sealed with binding tape. After washing the cover glasses, dry them with a lint-free cloth or chamois. Careful binding and labeling of the slide will complete the job.

When you next show a group of color slides to your friends or make up an entry for a color slide salon, include some fantasies in color. If you have created interesting and unusual effects, you'll be rewarded with an enthusiastic reaction from your audience. The possibilities for creating original and unusual color compositions will fascinate you and lead to new adventures in your chosen hobby.—▶

Here's what happened—

ON PAGE 84 of our April issue we published two very unusual pictures, and asked our readers to see if they could explain what happened. If you weren't able to find out what caused the startling effects, here are the answers.

In the first picture, made by Aubrey Andersson at an RCAF base in England, the exposure was 1/250 sec. at *f*/11, with flash as the light source. However, the flash was off to one side and fairly far away from the dart thrower, the main subject. There was a brilliant sun outside, and as the dart-thrower's arm moved in front of the window the effect of the flash on the arm was overcome by the sunlight streaming in, thus creating the illusion of transparency.

With Bernard Davis's shot of the elusive artist, much the same thing happened, although the exposure was 1 sec. at *f*/8. While the shutter was open, the subject jerked his head back from the canvas very suddenly. The back of the artist's head had recorded, and his profile, after his head stopped, was in roughly the same segment of an arc as the back of his head had occupied previously.

In this picture, too, the subject was against a window admitting bright sunlight. Thus the black area of the head shows where one small portion of the film was shielded by the two positions of the artist's head as it blocked out the intense light coming in from the window. The artist's hands were moving so fast they didn't record well on the film, and do not show except as two wispy streaks on the enlarged print. The brilliant sunlight used to make the long exposure washed out almost everything that was in motion, and the face would not have shown well had not the two positions overlapped.—▶

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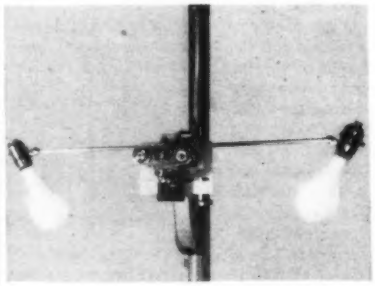
trade notes and news

TAPE RECORDER, the Wilcox-Gay Recordio 2A10, is offered by Monson Corp., 919 N. Michigan Ave., Chicago 11, Ill. Providing two speeds, the unit will provide up to two hours of recording on a 7-inch reel. Weighing less than 20 pounds, and measuring 12x14x7, the unit uses 5 or 7-inch reels, records from a microphone external radio, or other external source. Tape may be

erased and reused, and the device provides forward and reverse speeds. Other features are neon volume indicator, jack for plug-in external speaker, and accessories for office dictation use. All controls are push-button type, and a 5x7-inch elliptical speaker is provided. Price for the 2A10, using $3\frac{3}{4}$ and $7\frac{1}{2}$ speeds and 7-inch reel, is $149.95. Model 2A11, using $3\frac{3}{4}$ and $1\frac{7}{8}$ speeds, and a 7-inch reel, is the same. For additional details write Monson Corp.

STEREO SLIDE MOUNT of all plastic is being marketed by Holson Binders, Inc., 762 Wythe Ave., Brooklyn 11, N. Y. The stereo pairs are inserted in plastic envelopes and then placed in slots in the mount, without any pasting. Each mount has a white label for inclusion of information or caption about the stereo picture. A box of 16 mounts sells for $2.48, and 100 mounts cost $15. See your dealer for complete details.

COPYING MOUNT for use in conjunction with enlarger posts and pedestals is the Copidaptor, made by the Copidaptor Co., Suite 301, 1650 Broadway, New York 19, N. Y. Designed to fit 21 models of enlargers, with proper adaptor units, the assembly facilitates using enlarger setups to do close copying work with almost any camera. Features include lens centering provisions, and light mounting facilities. Camera

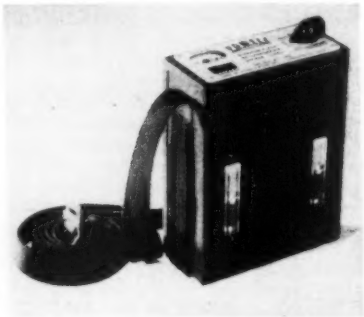


mounted on the unit can be rotated 360 degrees vertically, and on some enlargers the entire unit can be rotated, providing flexibility for intentional distortions. Made of aluminum, the unit is collapsible and can be stored when not in use. Price and full details on request. State model enlarger when writing.

NEW COLOR FILM for professional and amateur use, Kodak Ektachrome Roll Film, Type B for use with artificial illumination including flash, is introduced by Eastman Kodak Co., Rochester 4, N. Y. The new film is color balanced for 3200 K flood lamps, and it can be used with clear flash in conjunction with a Wratten 81-EF filter, or equivalent. Ektachrome Type B is intended for processing by the user, and will not be processed by Eastman Kodak Co. However, the company will provide a list of processing stations on request. The film is rated at ASA 10 for tungsten illumination. When used outdoors with a Wratten 85-B filter, or equivalent, the rating is ASA 6. Available in 8-exposure rolls in sizes 120 or 620, price is $1.79 per roll, including tax.

A LIGHTING KIT is presented by Calumet Mfg. Co., 2326 S. Michigan Ave., Chicago, Ill. The Home Portrait Lighting Outfit consists of two modeling lights—one for main light, and one for fill-in—and a highlight unit. In addition, a base with extension is supplied for using the 8-inch highlight reflector as a back light. Other components of the kit include two diffusers and a partitioned fiber case. The case holds all the above equipment plus extension cords, lamps, and other accessories. The stand fits into special grooves in the case. For price and additional details, see your dealer or write Calumet.

POWER PACK, Model WC-2, designed for use with electronic flash units rated at up to 110 watt-seconds light output, is announced by Powell Products, Inc., 1531 Devon Ave., Chicago, Ill. This unit is equivalent to a 110-volt a-c power source. It utilizes two non-spillable rechargeable bat-



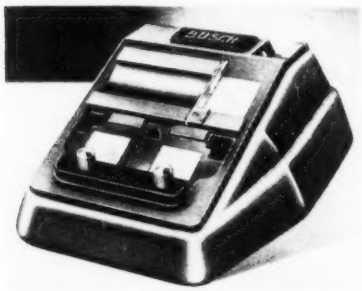
teries, and is equipped with built-in recharger. Weight of the unit is five pounds, seven ounces, and shoulder strap is furnished. For price and additional details, write the manufacturer.

NEW FILM HOLDER, the Graflex Riteway, is offered by Graflex, Inc., 154 Clarissa St., Rochester 8, N. Y. Made of aluminum and thermoplastic, the new holder has no holes, rivets, or glue joints; it features a spring-fingered light trap, and caption tabs, and is equipped with Graflex visual and touch signals and non-static dark slide. Riteway holders are available now in 4x5 size, and cost $4.05. See your dealer or write Graflex for additional information.

MAILING CAMERA which is mailed complete with film to its manufacturer is announced by Beaurline Industries of St. Paul, Minn. The Imp camera is made of plastic, with fixed focus meniscus lens. It is loaded with 35-mm film and ready for use when bought. Prints returned by Beaurline Industries laboratory are $3\frac{1}{4}$x$3\frac{1}{4}$. For additional information write Imp Camera, 105 S. Roberts St., St. Paul 1, Minn.

LIGHT BAR holding two reflector floods or reflector spots is offered by James A. Smith & Sons Corp., Griffith, Ind. The Victor Bar-Lite Model 12 is of conventional style and provides a padded camera mount, handle, and tripod mounting socket. Cord winds on clips when not in use. Price, less lamps, is $5.95. A three-light bar, the Model L38, allowing stand mounting of lights, sells for $7.95, including cord, but less lamps. Write the manufacturer or see your dealer for more information.

STEREO MOUNTING KIT is offered by Busch Camera Corp., 500 S. Clinton St., Chicago 7, Ill. The Busch kit operates from 110-volt a-c outlet, and provides lighted windows for positioning slides in glass mounts.



Guides hold roll of 35-mm film with exposed stereo pairs, and illuminated knife edge permits rapid cutting. Manual of use is included. For additional information, write Busch Camera Corp.

NEW ROLLFILM, size 828, is announced by Ansco, Binghamton, N. Y. The new film is available in black-and-white or color; b-w emulsion is Ansco Supreme, ASA rating Daylight 50, Tungsten 32; color emulsion is Ansco Color, Daylight Type, ASA rating 10. Both emulsions yield eight 28x40-mm pictures. See your dealer for more information.

STEREO FILE is announced by Brumberger Sales Corp., 34 Thirty Fourth St., Brooklyn 32, N. Y. The #1111 is a single-tier all steel file accommodating 50 metal or glass-bound slides, or up to 125 readymounts. Compartment holds a stereo viewer. Handle and snap catches complete the unit, along with numbered index cards. Price and complete details available on request.

SLIDE FILE that looks like a book when not in use is offered by Camera Specialty Co., Inc., 50 W. 29 St., New York 1, N. Y. The Dias Slide File is designed to accommodate 100 glass-bound 2x2 slides, or 200 2x2 readymounts. The unit is made of hardwood with leather binding and has metal hardware. Price is $7.50. See your dealer or write Camera Specialty for information.

LIGHT TILTER is announced by American Photographic Instrument Co., 241 W. 27 St., New York 1, N. Y. The Pic light tilter is made of duralumin and steel. It has a standard bolt for fitting to threaded flash or speedlight extensions, and affords complete spherical rotation, with pan and tilt movements. Also has ¼-inch electrical threading for attaching to medium brass shell socket. Device also will serve as camera tilter for smaller cameras. Price is $3.95. The company also offers the Pic folding background

holder and light bar, which unfolds to six-foot span. Arms are adjustable horizontally to several positions, and contain studs for use of Pic light tilters. Price of the background holder is $10.95. For full details, see your dealer or write the manufacturer.

CHECK THE DIRECTORY section of this issue of PHOTOGRAPHY for new and old items of photographic equipment available on the market today. New items in classifications for which detailed listings do not appear in the Directory, and new products announced too late to appear in the Directory section appear in TRADE NOTES. Look under the appropriate headings in the Directory for descriptions of the Akarex camera distributed by Mitropa Corp.; Ansco Karomat, Viking *f*/4.5, Viking *f* 6.3, Speedex Special, and Speedex cameras manufactured by Ansco; Balda 120 and Baldalux 120 cameras distributed by Kling Photo Supply Corp.; Bower-35 camera distributed by Saul Bower; Box Tengor camera distributed by Carl Zeiss, Inc.; Compco Reflex II camera manufactured by Compco Corp.; Coronet cameras distributed by General Photo Supply Co.; Curtis Color Scout 4x5 camera manufactured by Curtis Labs., Inc.; Drepy camera distributed by Delta Foreign Sales Corp.; Edinex camera distributed by Camera Specialty Co.; Ensign cameras distributed by Alco Photo Supply Corp.; Ferrania Elioflex camera distributed by G. A. Buttafarri; Graceflex camera distributed by A. G. Photo Distributors; Ising Isoflex camera distributed by Delta Foreign Sales Corp.; Kinax cameras distributed by Raygram Corp.; King Penguin camera distributed by General Photo Supply Co.; new Kodak cameras manufactured by Eastman Kodak Co.; Konan camera distributed by Spiratone; Linhof cameras distributed by Kling Photo Supply Corp.; Microcord and Micro-Technical 4x5 cameras distributed by General Photo Supply Co.; Million Proud camera distributed by Spiratone; Paxina camera distributed by Kine Camera Co.; Photaflex camera distributed by General Photo Supply Co.; Rectaflex Junior Camera distributed by Dowling's, Inc.; Regula cameras distributed by Burleigh Brooks Co.; Semflex Octomatic SII camera distributed by General Photo Supply Co.; Sinar cameras distributed by Heitz & Lightburn; Superflex camera distributed by A. G. Photo Distributors; new Voigtlander cameras distributed by Willoughby's; Arriflex movie camera distributed by Kling Photo Supply Corp.; new Bell & Howell movie cameras manufactured by Bell & Howell Co.; Bolex Leader H-16 and H-8 movie cameras distributed by Paillard Products, Inc.; Eumig S8 movie camera distributed by Camera Specialty Co.; Grover 4-lens GSAP turret movie camera manufactured by Grover Photo Products; new Revere movie cameras manufactured by Revere Camera Co.; Amatex and Exakt enlargers distributed by Burleigh Brooks Co.; new Solar enlargers distributed by Burke & James, Inc.; Tower cameras and enlarging easels distributed by Sears Roebuck Co.; Fedco 250 print dryer manufactured by Fedco Mfg. Co.; Photax print dryer distributed by General Photo Supply Co.; Spiratone print dryer manufactured by Spiratone; Superb Model 300 print dryer distributed by Willoughby's; Envoy Hand developing tanks distributed by Delta Foreign Sales Corp.; new Nikor developing tanks distributed by Burleigh Brooks Co.; Vertical developing tanks distributed by General Photo Supply Co.

Also included are Bertram Amateur exposure meter distributed by Willoughby's; Mascot PR-30 exposure meter manufactured by General Electric Co.; Hilba Color Lux and Swiss Lux 2 exposure meters distributed by Heitz & Lightburn; Ikophot IIA exposure meter distributed by Carl Zeiss, Inc.; Mini Rex exposure meter distributed by Spiratone; Sixtomat II exposure meter distributed by Mitropa Corp.; Magnephot Densichron printing exposure meter manufactured by W. M. Welch Scientific Co.; Alco contact printer distributed by Alco Photo Supply Corp.; B & J Professional contact printer distributed by Burke & James, Inc.; Photax contact printer distributed by General Photo Supply Co.; Tower contact printer distributed by Sears Roebuck Co.; Tru Copy Phote contact printer manufactured by General Photo Products Co., Inc.; Bell & Howell Filmosound 202 and Filmosound 285-C movie projectors manufactured by Bell & Howell Co.; Varicon contact printer distributed by Campus Camera Shop; Keystone Belmont and Keystone Regal movie projectors manufactured by Keystone Mfg. Co.; Reger 16-01 movie projector manufactured by Reger Mfg. Corp.; Victor Lite-Weight 60-4 movie projector manufactured by Victor Animatograph Corp.; Belirex still projector distributed by Photographic Importing & Distributing Corp.; Beseler Model C still projector manufactured by Chas. Beseler Co.; Dunning Junior Animatic slide projector manufactured by Dunningcolor Corp.; Kershaw Slide King slide projector distributed by General Photo Supply Co.; TDC Streamliner 500 slide projector manufactured by Three Dimension Co.; Viewlex 35-C and 25-C slide projectors manufactured by Viewlex, Inc.; Zett 35 slide projector distributed by Willoughby's and many other items of great interest to the amateur photographer. As an added feature, you will find a stereo section on page 140, listing stereo cameras and projectors.—▶

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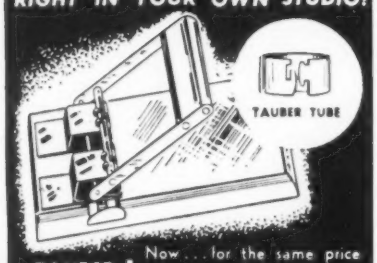

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Calendar of photographic exhibitions

*Conducted according to the recommended practices of the Photographic Society of America.

2nd Annual International Salon of Photography*, Rockford Lens and Shutter Club, Rockford, Ill.

Closes April 15, 1952.
Entry fee $1, four prints allowed.
On exhibit in Burpee Art Gallery, 737 No. Main, Rockford, from May 1 to May 31.
For information and entry blanks, write Mrs. Carl S. Johnson, 6712 North Second St., Rockford, Ill.

14th Buffalo International Exhibition of Nature Photography*, Science Museum Photographic Club, Buffalo, New York.

Closes April 23, 1952.
Entry fee $1, four prints and/or slides allowed.
On exhibit at Buffalo Museum of Science, Buffalo, May 6 through 31.
For information and entry blanks, write Irene Langendorfer, 419 Riley St., Buffalo 8, N. Y.

10th St. Louis International Exhibition of Pictorial Photography and 3rd Exhibition of Color Photography, Photographic Society of St. Louis, Inc., and Artists' Guild of St. Louis, St. Louis, Mo.

Closes April 23, 1952.
Entry fee $2, for prints and $1 for slides, four prints and/or slides allowed.
Prints on exhibit at The Artists' Guild May 10 to May 24; slides projected Scruggs - Vandervoort - Barney, Inc., Music Hall, May 12 and 19 at 7 PM and May 24 at 2 PM.
For information and entry blanks, write F. C. Kirby, St. Louis International Exhibition of Photography, Room 512, Missouri Pacific Railroad Bldg., St. Louis 3, Mo.

11th Annual Cincinnati International Salon of Photography*, Associated Camera Clubs of Cincinnati, Cincinnati, Ohio.

Closes April 26, 1952.
Entry fee $1, 4 prints and/or slides allowed.
On exhibit at Cincinnati Art Museum, May 7 through 21, 1952.
For information and entry blanks write Raymond E. Riedinger, General Chairman, 3875 Kirkup Avenue, Cincinnati 13, Ohio.

1952 Baltimore International Salon of Photography*, The Baltimore Camera Club, Baltimore, Md.

Closes May 10, 1952.
Entry fee $2, four black and white or color prints allowed.
On exhibit at Baltimore Museum of Art, May 31 to June 22.
For information and entry blanks, write Paul V. Forrest, Jr., 23 Leslie Avenue, Baltimore 6, Md.

Color Print Competition*, Color Division of the Photographic Society of America, Philadelphia, Pa.

Closes May 20, 1952.
No entry fee required for Color Division members. $.50 for contest. Four prints allowed.
For information and entry blanks write Contest Director W. H. Savary, R.D. No. 2, Box No. 221, Plainfield, New Jersey.

contests and markets

CONTESTS

PHOTOGRAPHY announces its 1952 Picture Contest, open to photographers anywhere in the world. The contest opens March 7, and entries must be postmarked before midnight, July 15. Competition will be in two divisions — black-and-white and color — each judged separately. Judges will be the editors of PHOTOGRAPHY. No entry fee is required and any number of black-and-white prints, color prints and color transparencies may be submitted. There are no restrictions as to subject matter or size in either division. Prints may be either mounted or unmounted. Hand-colored prints are not eligible, but chemically-toned prints are. Pictures which have been published in, accepted for publication by or are under consideration of any other photographic magazine are not eligible. Publication in media other than photographic magazines does not disqualify entries. Prizes will be United States Savings Bonds, Series E. Total value of awards, which is maturity value of Bonds, is $25,000. There will be 55 awards in the color division and 225 in the black-and-white division. Prize winners who are not United States citizens will receive, in lieu of Bonds, the amount of the purchase price of the Bond award. In case of ties, duplicate prizes will be awarded. Prize-winning entrants will be required to furnish original negatives before prizes will be awarded. Negatives of prize-winning pictures become the exclusive property of PHOTOGRAPHY. For a complete list of prizes, full contest rules and official entry blank, see pages 90-91 of this issue. Rules and entry blanks are also available from your local photographic dealer or photo finisher.

NATIONAL SCHOLASTIC PRESS ASSOCIATION announces the annual National High School Photographic Awards contest, with prize money furnished by the Eastman Kodak Company. The contest is open to regularly enrolled students attending daily any public, private or parochial high school (grades nine through twelve) in the United States. Grand prize of $400 goes to the best of the first prize winners in the four classifications, each of which receives $200. Additional cash prizes will be awarded. Four classifications are: babies and children; young people and adults; scenes, and animal life. Pictures must have been made by entrant, without professional help, since March 1, 1951. They must be black and white, unretouched, unmounted and, if enlarged, no more than 7x7 inches. Send entries to NSPA National High School Photographic Awards, 18 Journalism Building, University of Minnesota, Minneapolis 14, Minn., by May 1.

MARKETS

EASTERN CALENDAR COMPANY announces a market for 2x2 Kodachrome or Ansco color slides for use as promotional novelties. They are interested in pin-ups; however no extremes are wanted. Just plain bathing or sun suit types, either studio or outdoors, are preferable. Payment is from $1 to $3. Write Edward R. Robertson, Eastern Calendar Co., 117 Brook St., Hartford, Conn.

SOCIETY FOR VISUAL EDUCATION is interested in buying 2x2 color slides of Europe, Asia, Latin America, Australia and Africa which will become a part of their Educational Film Library. The slides should show physical characteristics of the country together with the customs, habits and activities of the people. S.V.E. will supply a duplicate to the owner of any slides which they purchase. Slides for consideration may be sent to Society for Visual Education, Inc., Editorial Dept., 1345 Diversey Parkway, Chicago 14, Ill.

VANDE PRESS PHOTOS are looking for 4x5 color transparencies and 8x10 black and white prints for use in advertising and for newspaper rotogravure, displays, magazine covers and calendars. Subject matter may be landscapes, farm life, children, human interest, animals, sports, industrial and scientific themes, birds, mountains, deserts, flowers and photo stories. All pictures should be captioned. Inquiries may be directed to M. Vande Plasch, Vande Press Photos, 3921 N. Fourteenth St., Milwaukee 6, Wis.

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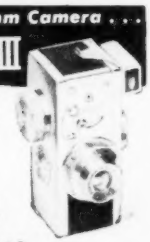

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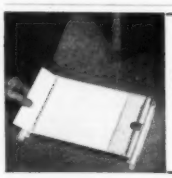

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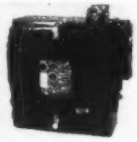

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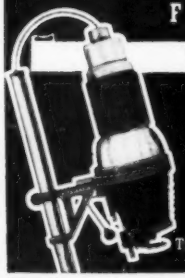

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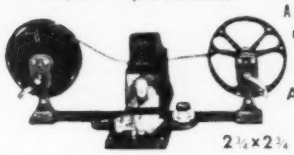

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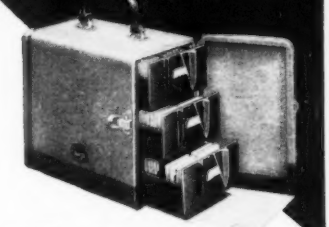

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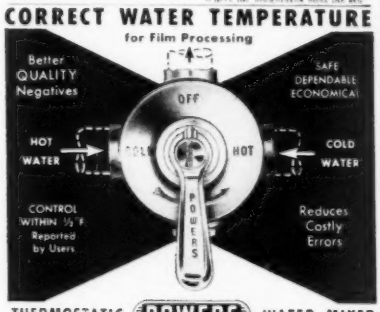

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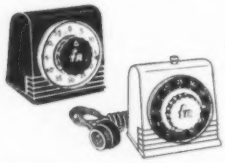

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